

SEQUENCE LISTING

<110> ChondroGene
Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses
Thereof

<130> xx

<150> US

<151> 2000-01-04

<150> US 60/115,125

<151> 1999-01-06

<160> 112

<170> PatentIn version 3.2

<210> 1

<211> 110

<212> DNA

<213> Human

<400> 1

acacaacgta acaataacat atttagccaa thtagtagac tgctatataa tacattagag 60

tgtaattca ttccgtttac agccccattg ggtgtcaaatt ttttttgtt 110

<210> 2

<211> 530

<212> DNA

<213> Human

<220>

<221> misc_feature

<222> (16)..(16)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (19)..(19)

<223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (25)..(25)
 5 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (38)..(38)
 10 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (40)..(40)
 15 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (42)..(42)
 20 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (44)..(44)
 25 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (64)..(66)
 30 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (70)..(71)
 35 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (81)..(81)
 40 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (86)..(86)
 45 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (89)..(89)
 <223> n is a, c, g, or t
 5
 <220>
 <221> misc_feature
 <222> (117)..(117)
 <223> n is a, c, g, or t
 10
 <220>
 <221> misc_feature
 <222> (121)..(121)
 <223> n is a, c, g, or t
 15
 <220>
 <221> misc_feature
 <222> (123)..(123)
 <223> n is a, c, g, or t
 20
 <220>
 <221> misc_feature
 <222> (135)..(135)
 <223> n is a, c, g, or t
 25
 <220>
 <221> misc_feature
 <222> (143)..(143)
 <223> n is a, c, g, or t
 30
 <220>
 <221> misc_feature
 <222> (177)..(177)
 <223> n is a, c, g, or t
 35
 <220>
 <221> misc_feature
 <222> (179)..(179)
 <223> n is a, c, g, or t
 40
 <220>
 <221> misc_feature
 <222> (181)..(181)
 <223> n is a, c, g, or t
 45
 <220>

<221> misc_feature
 <222> (193)..(194)
 <223> n is a, c, g, or t

5 <220>
 <221> misc_feature
 <222> (209)..(210)
 <223> n is a, c, g, or t

10 <220>
 <221> misc_feature
 <222> (215)..(215)
 <223> n is a, c, g, or t

15 <220>
 <221> misc_feature
 <222> (217)..(217)
 <223> n is a, c, g, or t

20 <220>
 <221> misc_feature
 <222> (221)..(221)
 <223> n is a, c, g, or t

25 <220>
 <221> misc_feature
 <222> (228)..(228)
 <223> n is a, c, g, or t

30 <220>
 <221> misc_feature
 <222> (233)..(233)
 <223> n is a, c, g, or t

35 <220>
 <221> misc_feature
 <222> (236)..(236)
 <223> n is a, c, g, or t

40 <220>
 <221> misc_feature
 <222> (243)..(243)
 <223> n is a, c, g, or t

45 <220>
 <221> misc_feature

<222> (251)..(254)
 <223> n is a, c, g, or t

<220>

5 <221> misc_feature
 <222> (270)..(270)
 <223> n is a, c, g, or t

<220>

10 <221> misc_feature
 <222> (272)..(272)
 <223> n is a, c, g, or t

<220>

15 <221> misc_feature
 <222> (274)..(275)
 <223> n is a, c, g, or t

<220>

20 <221> misc_feature
 <222> (283)..(283)
 <223> n is a, c, g, or t

<220>

25 <221> misc_feature
 <222> (292)..(293)
 <223> n is a, c, g, or t

<220>

30 <221> misc_feature
 <222> (299)..(299)
 <223> n is a, c, g, or t

<220>

35 <221> misc_feature
 <222> (303)..(303)
 <223> n is a, c, g, or t

<220>

40 <221> misc_feature
 <222> (307)..(307)
 <223> n is a, c, g, or t

<220>

45 <221> misc_feature
 <222> (312)..(312)

<223> n is a, c, g, or t

 <220>
 <221> misc_feature
 5 <222> (319)..(319)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 10 <222> (324)..(325)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 15 <222> (328)..(329)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 20 <222> (342)..(342)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 25 <222> (345)..(345)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 30 <222> (366)..(366)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 35 <222> (377)..(377)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 40 <222> (382)..(382)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 45 <222> (391)..(391)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (395)..(395)
 5 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (400)..(400)
 10 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (412)..(413)
 15 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (422)..(422)
 20 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (424)..(424)
 25 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (426)..(426)
 30 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (433)..(433)
 35 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (439)..(439)
 40 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (442)..(442)
 45 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (452)..(452)
 <223> n is a, c, g, or t
 5
 <220>
 <221> misc_feature
 <222> (460)..(460)
 <223> n is a, c, g, or t
 10
 <220>
 <221> misc_feature
 <222> (463)..(463)
 <223> n is a, c, g, or t
 15
 <220>
 <221> misc_feature
 <222> (471)..(471)
 <223> n is a, c, g, or t
 20
 <220>
 <221> misc_feature
 <222> (495)..(495)
 <223> n is a, c, g, or t
 25
 <220>
 <221> misc_feature
 <222> (500)..(500)
 <223> n is a, c, g, or t
 30
 <220>
 <221> misc_feature
 <222> (504)..(504)
 <223> n is a, c, g, or t
 35
 <220>
 <221> misc_feature
 <222> (516)..(516)
 <223> n is a, c, g, or t
 40
 <400> 2
 gcctgttcta tacagnttnt aaatntcatt tcagatcntn tntntgtgat aatgaatgct 60
 gttnnntagn ntcctatat natgtncgna cacatcctaa agcataggat gaaaaantga 120
 45 nanccttagg atttngagca cantgccttt acctgaatat atacagcaca gttctgnant 180

ncctggcgtg tgnnactgga gatctctann aaaangnata nagtgggngg gcncnttggc 240
 gntgcccgt nnnncctaaa tttccccc gngnnggagg ccngtcacct gnncccatng 300
 5 cgtctngac cngcctgtna acgnntanng gagccttagt cncntctaaa aacacaaaat 360
 tagccnggca tgggggntgg gnccttgta ntctnagctn cttgggaggc tnnccagga 420
 10 antncncttg aanccgggna gngggtggcc tnaagttgn ggnaaggcca ntgatcaccg 480
 ccccttcccc tccangcccn gggngaaggg attgngact tccgttttgg 530

15 <210> 3
 <211> 215
 <212> DNA
 <213> Human

20 <400> 3
 cggcacgagg atcaatttgc cttggaagaa caaaaggaaa gtctggaaat gcagaaagta 60
 tggatgctga accacataac agcagatggc attgctgtga agtatactgg atggaataca 120
 25 ttcaagcgtt aatatttaac tctttttgtg gaaggtcaca caattaaaat ttaattgggc 180
 atggaggctt aggacggggg aaaaaagtct ttaga 215

30 <210> 4
 <211> 129
 <212> DNA
 <213> Human

35 <400> 4
 gtttctttt cctaaaacgg ttttatttaa ctcaatgtgt caaagtttt ttttaataat 60
 cccaagaggg atgaagccgt gtccacaggg atatatacat cattatggtt cccatctttc 120

40 atacatgaa 129

<210> 5
 <211> 361
 45 <212> DNA
 <213> Human

5 <220>
 <221> misc_feature
 <222> (13)..(14)
 <223> n is a, c, g, or t

10 <220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n is a, c, g, or t

15 <220>
 <221> misc_feature
 <222> (20)..(21)
 <223> n is a, c, g, or t

20 <220>
 <221> misc_feature
 <222> (25)..(28)
 <223> n is a, c, g, or t

25 <220>
 <221> misc_feature
 <222> (42)..(42)
 <223> n is a, c, g, or t

30 <220>
 <221> misc_feature
 <222> (52)..(52)
 <223> n is a, c, g, or t

35 <220>
 <221> misc_feature
 <222> (55)..(55)
 <223> n is a, c, g, or t

40 <220>
 <221> misc_feature
 <222> (57)..(57)
 <223> n is a, c, g, or t

45 <220>
 <221> misc_feature
 <222> (59)..(59)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (63)..(63)
 5 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (65)..(65)
 10 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (68)..(68)
 15 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (72)..(72)
 20 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (74)..(74)
 25 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (77)..(77)
 30 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (91)..(91)
 35 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (102)..(102)
 40 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (117)..(117)
 45 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (127)..(128)
 <223> n is a, c, g, or t
 5
 <220>
 <221> misc_feature
 <222> (169)..(169)
 <223> n is a, c, g, or t
 10
 <220>
 <221> misc_feature
 <222> (172)..(172)
 <223> n is a, c, g, or t
 15
 <220>
 <221> misc_feature
 <222> (192)..(192)
 <223> n is a, c, g, or t
 20
 <220>
 <221> misc_feature
 <222> (203)..(203)
 <223> n is a, c, g, or t
 25
 <220>
 <221> misc_feature
 <222> (243)..(244)
 <223> n is a, c, g, or t
 30
 <220>
 <221> misc_feature
 <222> (248)..(249)
 <223> n is a, c, g, or t
 35
 <220>
 <221> misc_feature
 <222> (253)..(253)
 <223> n is a, c, g, or t
 40
 <220>
 <221> misc_feature
 <222> (283)..(283)
 <223> n is a, c, g, or t
 45
 <220>

<221> misc_feature
<222> (288)..(288)
<223> n is a, c, g, or t

5 <220>
<221> misc_feature
<222> (299)..(299)
<223> n is a, c, g, or t

10 <220>
<221> misc_feature
<222> (318)..(318)
<223> n is a, c, g, or t

15 <220>
<221> misc_feature
<222> (327)..(327)
<223> n is a, c, g, or t

20 <220>
<221> misc_feature
<222> (334)..(334)
<223> n is a, c, g, or t

25 <220>
<221> misc_feature
<222> (348)..(348)
<223> n is a, c, g, or t

30 <220>
<221> misc_feature
<222> (359)..(360)
<223> n is a, c, g, or t

35 <400> 5
gggggctttt tnnancggn nccgnnnncc ctctctggga anttttgggc cnttntntna 60
aangnggnct tncnggnaaa tgggtttttt naggggggctg gncaaagggt tttctntaa 120
40 tgggatnngg ccggcatttt aaaaaaaccc gctttggcct ttttgctana tnggaaaaaa 180
ttttttaaa angcctaaga canggttttc ccttcatatg ccaaacttcc cctaacattt 240
gggnnttttng ggngggcagg gggggatttt taaaccggat ttngggtnaa aaaaaatcng 300
45 gggggaattt ttgggganaa aaccttnggg gggnccccct ttgaaaanaa aggggtgggnn 360

g

361

5 <210> 6
 <211> 839
 <212> DNA
 <213> Human

10 <220>
 <221> misc_feature
 <222> (475)..(475)
 <223> n is a, c, g, or t

15 <220>
 <221> misc_feature
 <222> (556)..(556)
 <223> n is a, c, g, or t

20 <220>
 <221> misc_feature
 <222> (559)..(559)
 <223> n is a, c, g, or t

25 <220>
 <221> misc_feature
 <222> (585)..(585)
 <223> n is a, c, g, or t

30 <220>
 <221> misc_feature
 <222> (606)..(606)
 <223> n is a, c, g, or t

35 <220>
 <221> misc_feature
 <222> (644)..(644)
 <223> n is a, c, g, or t

40 <220>
 <221> misc_feature
 <222> (671)..(671)
 <223> n is a, c, g, or t

45 <220>

<221> misc_feature
 <222> (693)..(693)
 <223> n is a, c, g, or t

5 <220>
 <221> misc_feature
 <222> (695)..(695)
 <223> n is a, c, g, or t

10 <220>
 <221> misc_feature
 <222> (714)..(714)
 <223> n is a, c, g, or t

15 <220>
 <221> misc_feature
 <222> (742)..(742)
 <223> n is a, c, g, or t

20 <220>
 <221> misc_feature
 <222> (744)..(744)
 <223> n is a, c, g, or t

25 <220>
 <221> misc_feature
 <222> (756)..(756)
 <223> n is a, c, g, or t

30 <220>
 <221> misc_feature
 <222> (765)..(765)
 <223> n is a, c, g, or t

35 <220>
 <221> misc_feature
 <222> (768)..(768)
 <223> n is a, c, g, or t

40 <220>
 <221> misc_feature
 <222> (808)..(808)
 <223> n is a, c, g, or t

45 <220>
 <221> misc_feature

<222> (815)..(815)
<223> n is a, c, g, or t

<220>

5 <221> misc_feature
<222> (823)..(823)
<223> n is a, c, g, or t

<220>

10 <221> misc_feature
<222> (830)..(830)
<223> n is a, c, g, or t

<220>

15 <221> misc_feature
<222> (837)..(837)
<223> n is a, c, g, or t

<400> 6

20 ctcgtgccga attcggcacg agcaaagtac ctggacttta tggaatcctt ctatacttca 60

ttgtcaatca tttattggtt ctaaaaagga tcggacaatg tgctatttca gggaagccaa 120

tgttttggag taaatgcac aaataatttc tcttgccttg caaacacatt ttttttctg 180
25 tcattgcaat gtgcacaaag ggccacgagg atctacaaga aagcctgcct tattctgacc 240

aggagtgggg agctgacaag aggcttcaca gagcaggtga tgtttagaga ggaatgtctc 300

ccatttecta gtagcctgtg aggcctcaca aaccgggaat caagtttccc ttctgaactc 360

agtttcaat cgtgtaggga tagggttccc aggtgtgcct ctatgtgtag aggcctctatt 420

ataccctgga tacacattga tatgcatgtg caatgctgga atcaccagcc cccangtctc 480
35 cctcccaaat gtgcatgttt ttgacccat gtcacattta atttttttt tcaattgacg 540

ggtttttagg gcaaantnc caaaacatcc cccacttgc catantcccc tgtcattcca 600

tattgncttg cactgacatg attcactcat tgatattgcc tgnngcgttc ctatggcctt 660

tgagtttgca nactggggtt gggggaaacc cangnaaaaa aacctcttg aaanggggaa 720

cccccccaat ggtgggggaa ananaactgg actttntttg ggagnccnga atttgctctt 780
45 gaccaggcag ggacctggga ccctgaangc tttntaatc ttnggggcn gaaaantg 839

<210> 7

<211> 118

5 <212> DNA

<213> Human

<400> 7

atgggaaagt gtgtaagatt tagaaaaagc attaactatt agtaaacttt atcttaagct 60

10

ctaacccttg attaggtccc acaaaaatta ggtgatatgc aatttctaatt ttagggcc 118

<210> 8

15 <211> 197

<212> DNA

<213> Human

<400> 8

20 gttgcagtga gccgagatca taccactgca ctccagccta ggcaacagag cgagactcgg 60

tcaaaagaaa aaaaaaaagg ggagctgggc gtgggtacta atgccgtaat cccaggcctt 120

tggaatccc aggcaaggtg gccttaggg caaggagttc ggaacctccc tgctaacagg 180

25

taaacccct ttcctt 197

<210> 9

30 <211> 250

<212> DNA

<213> Human

<400> 9

35 gagaccaagg ccgccccgct ctggtctcag accagttgtg ctgctcttgc tctggctcag 60

ctggtgtggg gcgcaggcgg gaaacgagac ctctagcatc tggctgaagg ctctgccaag 120

ctcctcttca gggctgcagt ctgcctgcct gcatataccg acttggccag aactgctgc 180

40

taaattccag ggactcttcc tcccctctc tgctctccag ccaatccttg aggatttaat 240

aactggaagg 250

45

<210> 10

<211> 680
 <212> DNA
 <213> Human

5

<220>
 <221> misc_feature
 <222> (433)..(433)
 <223> n is a, c, g, or t

10

<220>
 <221> misc_feature
 <222> (600)..(600)
 <223> n is a, c, g, or t

15

<220>
 <221> misc_feature
 <222> (615)..(615)
 <223> n is a, c, g, or t

20

<220>
 <221> misc_feature
 <222> (626)..(626)
 <223> n is a, c, g, or t

25

<220>
 <221> misc_feature
 <222> (645)..(645)
 <223> n is a, c, g, or t

30

<220>
 <221> misc_feature
 <222> (661)..(661)
 <223> n is a, c, g, or t

35

<400> 10
 caccaaagaa gcaagagggc ttcttttgt ttctggggac aataactaac tttaatttgc 60

40

tcttcaagaa gaaggaagct gggtatatag gggaatggca gaagtgtctg cagatgaacc 120

atgaggagca tggcttttaa gaacatgctg agaaggaagc aacacagact ccatcactgg 180

gggaagcacc tgaatagagc actggtaaag gccagtctgt ggacctgagg ccagaggaga 240

45

tgccaggggt ccagatttca tggccacag aaacggaact gatcatattt ggttgctggc 300

cagtgttcca tagaccaaga aggctggtag caagtataga ttcctctaca tagcttgaca 360
ggagaagaga aaggggaatg tagcacacag gatgcagcag gtgaataaga aaacctcctt 420
5 tttccagggtt ggngacagtg agtgatctac agtgatactc aaaagattgt gattggtgtg 480
ggaattcctg tctcaatatg caatctgccca agaaaacact gtgatggttt cctgtaaagt 540
aaccctcttt tcttatctct aatttcacaa gactcttaaa tgagaggggg gggagaaagn 600
10 gttctttctc actcncctaa aactgnggggt ctgcctggag aaaanctaca tctgcacaga 660
naatgctggt tagccaggaa 680
15 <210> 11
<211> 318
<212> DNA
<213> Human
20 <400> 11
cctgcagagt actccatgga aacaattgcc gagcacgtgc tcgcaattg ccgagcacgg 60
tccggttga actcctagac taagactagg taggtgatac ataccttctt cccaccaagt 120
25 actcacgac caaactatga atttagatt cggatcaaac gaggattgat ccgagggacc 180
aacgttgga taaatcttac gtcgtcttat atattaagtt tttgtggagg atcggataag 240
30 tctatagtgt ttgtcacaga tagtcccgta ccacacccca gaccatagga gtcgtcttcc 300
ggaccgcggt ctaatggg 318
35 <210> 12
<211> 155
<212> DNA
<213> Human
40 <400> 12
tctcacattg gacatactca aaattcactt ataattctca caccacaaa aacttaccca 60
tatcaaatta taaaccacc cacattactt aaaattttt acatttccca ataaaaaacc 120
45 caaataaaca aaaacttcca atctccattt aaat 155

<210> 13
 <211> 125
 <212> DNA
 5 <213> Human

 <400> 13
 aataaacaaa catgccctct aatatatgaa ttcatcacac aacacgcaca ctgtccccac 60

 10 aaacaccttt ttggtgtcaa gaagaaaaag actagcttca ctgaacagag aaatgctgga 120

 cagtg 125

 15 <210> 14
 <211> 168
 <212> DNA
 <213> Human

 20
 <220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n is a, c, g, or t
 25
 <220>
 <221> misc_feature
 <222> (15)..(15)
 <223> n is a, c, g, or t
 30
 <220>
 <221> misc_feature
 <222> (37)..(38)
 <223> n is a, c, g, or t
 35
 <220>
 <221> misc_feature
 <222> (47)..(47)
 <223> n is a, c, g, or t
 40
 <220>
 <221> misc_feature
 <222> (56)..(57)
 <223> n is a, c, g, or t
 45
 <220>

<221> misc_feature
 <222> (94)..(94)
 <223> n is a, c, g, or t

5 <220>
 <221> misc_feature
 <222> (127)..(127)
 <223> n is a, c, g, or t

10 <220>
 <221> misc_feature
 <222> (155)..(155)
 <223> n is a, c, g, or t

15 <220>
 <221> misc_feature
 <222> (157)..(157)
 <223> n is a, c, g, or t

20 <400> 14
 ggcccntggg ggggnagggc ctttcgggg ccggggnnng gccccnttt ggcccnnggg 60
 gggtttcccg gggaacccaa cccttaagg ggtngggggg aatttcccc caaaaaaagg 120
 25 gaaaaanttt tccggggggc ccaccggga agggntnccg gggaaggg 168

<210> 15
 <211> 438
 30 <212> DNA
 <213> Human

<400> 15
 aaaaaacttc ttatagtc ttatatatt ttaattgtt atgttagggg aagctataga 60
 35 ggaacaaatt tgggataga atataaggct gggattacag gcatgagcca ccaagcccgg 120
 cccacatttc cattttaat atatactgtg cttacaaat attataatat gttttaaat 180
 40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaa ataagcattc 240
 ttgaaatata tatttagttt ttaattgtg taggaaaatc aaagccagag ggagtagaaa 300
 caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga 360
 45 agtctacct aattgatga taaaattaca tggaagggat tctgttggc atgaggacct 420

accaagatgg tcaacaga

438

5 <210> 16
 <211> 235
 <212> DNA
 <213> Human

10 <220>
 <221> misc_feature
 <222> (5)..(5)
 <223> n is a, c, g, or t

15 <220>
 <221> misc_feature
 <222> (15)..(15)
 <223> n is a, c, g, or t

20 <220>
 <221> misc_feature
 <222> (39)..(39)
 <223> n is a, c, g, or t

25 <220>
 <221> misc_feature
 <222> (47)..(47)
 <223> n is a, c, g, or t

30 <220>
 <221> misc_feature
 <222> (52)..(52)
 <223> n is a, c, g, or t

35 <220>
 <221> misc_feature
 <222> (69)..(69)
 <223> n is a, c, g, or t

40 <220>
 <221> misc_feature
 <222> (154)..(154)
 <223> n is a, c, g, or t

45 <220>

<221> misc_feature
 <222> (207)..(207)
 <223> n is a, c, g, or t

5 <220>
 <221> misc_feature
 <222> (217)..(217)
 <223> n is a, c, g, or t

10 <400> 16
 aaggnccttt ccggnccggc ccggccccc ttggcccang ggggttnccg gnaaaccacc 60
 cttaaggnt tgggggaatt cccccaaaa aggaaaaaat ttcccgggg gccacccgg 120
 15 aaagggggaa ggcccccaa accggggggg gggnaaaaag gtgggtttcc cccttttcc 180
 aattcccaa accaatttc aaaaggnaaa ccaacnttc ccaaatggg aaagg 235

20 <210> 17
 <211> 294
 <212> DNA
 <213> Human

25 <220>
 <221> misc_feature
 <222> (18)..(19)
 <223> n is a, c, g, or t

30 <220>
 <221> misc_feature
 <222> (27)..(27)
 <223> n is a, c, g, or t

35 <220>
 <221> misc_feature
 <222> (47)..(47)
 <223> n is a, c, g, or t

40 <220>
 <221> misc_feature
 <222> (66)..(66)
 <223> n is a, c, g, or t

45 <220>

<221> misc_feature
 <222> (76)..(76)
 <223> n is a, c, g, or t

5 <220>
 <221> misc_feature
 <222> (82)..(82)
 <223> n is a, c, g, or t

10 <220>
 <221> misc_feature
 <222> (108)..(108)
 <223> n is a, c, g, or t

15 <220>
 <221> misc_feature
 <222> (133)..(133)
 <223> n is a, c, g, or t

20 <220>
 <221> misc_feature
 <222> (162)..(162)
 <223> n is a, c, g, or t

25 <220>
 <221> misc_feature
 <222> (210)..(210)
 <223> n is a, c, g, or t

30 <220>
 <221> misc_feature
 <222> (260)..(260)
 <223> n is a, c, g, or t

35 <220>
 <221> misc_feature
 <222> (276)..(276)
 <223> n is a, c, g, or t

40 <400> 17
 aaaccaaccc tttaaggntt ggggggnaat tcccccaaa aaaaggnaaa aatttttcc 60
 gggggnccaa accggnaaag gntttgggaa aaccaaattt ttttgncc caaccccccc 120
 45 caaattgggg ggnaaaccaa atttaagggg ggaagggggg gncccccccg ggaaaggccc 180

aaggggggaa aatttttccg ggggtgggtn gggggaacca atttaagggg ggggcccccg 240

gggggggtcc ccttgggcn ttttcttt tgggtnaaaa aaaaaaaccc ctg 294

5

<210> 18
<211> 453
<212> DNA
<213> Human

10

<400> 18
gtagaatata ggggtgatact ggagatctac tgcgacctag accatgatac ataaccacac 60

aagttaatc cctgggttct aactaccctt actgtcactt agcttaacct gcctccaatc 120

15

ctgtacttga actctaaaac tgttgagaa actcagtgt taccccaaca gattcatttc 180

aaatagctgt aaaaggtatg ttactccag aagaccagag ttgcttctt tgaacttctc 240

20

attccttggg cctaggaacc ctcatcacc tcateccaac gtcaaccag atcttctctt 300

ccataaacag cactccctca gggccctgcc tgacacaggc atagactgtc atgttgatt 360

cacagacagg ctgtgctaga ggaaacctct ggggctcacc aggggccgtg ggatgggctt 420

25

ctggggcttc ttgagccca acttctcat ggc 453

30

<210> 19
<211> 242
<212> DNA
<213> Human

35

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is a, c, g, or t

40

<220>
<221> misc_feature
<222> (40)..(40)
<223> n is a, c, g, or t

45

<220>
<221> misc_feature

<222> (59)..(59)

<223> n is a, c, g, or t

<220>

5 <221> misc_feature

<222> (76)..(76)

<223> n is a, c, g, or t

<220>

10 <221> misc_feature

<222> (107)..(107)

<223> n is a, c, g, or t

<220>

15 <221> misc_feature

<222> (165)..(165)

<223> n is a, c, g, or t

<220>

20 <221> misc_feature

<222> (189)..(189)

<223> n is a, c, g, or t

<220>

25 <221> misc_feature

<222> (216)..(216)

<223> n is a, c, g, or t

<220>

30 <221> misc_feature

<222> (221)..(221)

<223> n is a, c, g, or t

<220>

35 <221> misc_feature

<222> (230)..(230)

<223> n is a, c, g, or t

<400> 19

40 gattcagact gtaaggnacg aaccctcggg gtccccacgn tgttcccccc ggggtaacnt 60

cggcccgggc ccgggnagcc ctccccgggc tttcccccg ggggggnccc gggggggacc 120

tttagcggc accccaacaa caccaggccc tacttttcc aaggncgggg aagcccatgg 180

45 gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240

tg 242

5 <210> 20
 <211> 181
 <212> DNA
 <213> Human

10 <400> 20
 gtttgtttgt ttttgagatg aatctcactc tgctgcccag gctggaatgc agtggtgtga 60
 tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt 120
 15 gcaggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180

c 181

20 <210> 21
 <211> 100
 <212> DNA
 <213> Human

25 <220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n is a, c, g, or t

30 <220>
 <221> misc_feature
 <222> (23)..(23)
 <223> n is a, c, g, or t

35 <220>
 <221> misc_feature
 <222> (28)..(28)
 <223> n is a, c, g, or t

40 <220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n is a, c, g, or t

45 <220>

<221> misc_feature
<222> (41)..(41)
<223> n is a, c, g, or t

5 <220>
<221> misc_feature
<222> (44)..(44)
<223> n is a, c, g, or t

10 <220>
<221> misc_feature
<222> (53)..(53)
<223> n is a, c, g, or t

15 <220>
<221> misc_feature
<222> (59)..(59)
<223> n is a, c, g, or t

20 <220>
<221> misc_feature
<222> (62)..(62)
<223> n is a, c, g, or t

25 <220>
<221> misc_feature
<222> (67)..(67)
<223> n is a, c, g, or t

30 <220>
<221> misc_feature
<222> (70)..(71)
<223> n is a, c, g, or t

35 <220>
<221> misc_feature
<222> (74)..(74)
<223> n is a, c, g, or t

40 <220>
<221> misc_feature
<222> (76)..(76)
<223> n is a, c, g, or t

45 <220>
<221> misc_feature

<222> (79)..(79)
<223> n is a, c, g, or t

<220>

5 <221> misc_feature
<222> (83)..(84)
<223> n is a, c, g, or t

<220>

10 <221> misc_feature
<222> (86)..(86)
<223> n is a, c, g, or t

<220>

15 <221> misc_feature
<222> (97)..(97)
<223> n is a, c, g, or t

<400> 21

20 gcacaaggaa ggggtggncag atnttcngc actggnaaaa ngcngctatg gtngtgaant 60

tncccnccn nttnanacna aanntngcac tcttggtgc 100

25 <210> 22
<211> 100
<212> DNA
<213> Human

30 <220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

35 <220>
<221> misc_feature
<222> (17)..(17)
<223> n is a, c, g, or t

40 <220>
<221> misc_feature
<222> (37)..(37)
<223> n is a, c, g, or t

45 <220>

<221> misc_feature
 <222> (52)..(53)
 <223> n is a, c, g, or t

5 <220>
 <221> misc_feature
 <222> (56)..(56)
 <223> n is a, c, g, or t

10 <220>
 <221> misc_feature
 <222> (77)..(77)
 <223> n is a, c, g, or t

15 <220>
 <221> misc_feature
 <222> (85)..(85)
 <223> n is a, c, g, or t

20 <220>
 <221> misc_feature
 <222> (89)..(89)
 <223> n is a, c, g, or t

25 <220>
 <221> misc_feature
 <222> (96)..(96)
 <223> n is a, c, g, or t

30 <400> 22
 cntgcgcat ttactgnagg tggacaagga tactatnaac aaagatgtgg cnnaangaga 60

ataatggaag atagctntga ggatnaacnc tggtnaggg 100

35 <210> 23
 <211> 100
 <212> DNA
 <213> Human

40
 <220>
 <221> misc_feature
 <222> (17)..(17)
 45 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (19)..(19)
 <223> n is a, c, g, or t
 5
 <220>
 <221> misc_feature
 <222> (27)..(29)
 <223> n is a, c, g, or t
 10
 <220>
 <221> misc_feature
 <222> (37)..(38)
 <223> n is a, c, g, or t
 15
 <220>
 <221> misc_feature
 <222> (46)..(46)
 <223> n is a, c, g, or t
 20
 <220>
 <221> misc_feature
 <222> (49)..(49)
 <223> n is a, c, g, or t
 25
 <220>
 <221> misc_feature
 <222> (65)..(65)
 <223> n is a, c, g, or t
 30
 <220>
 <221> misc_feature
 <222> (72)..(72)
 <223> n is a, c, g, or t
 35
 <400> 23
 acaccttccc acttgcngna aagggggnng gcccccnct tgggcnganc attaagcctt 60
 tttgnggctg cngcccctgt gcctggtgcc acaacaaatg 100
 40
 <210> 24
 <211> 227
 <212> DNA
 45 <213> Human

<220>
 <221> misc_feature
 <222> (5)..(5)
 5 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (13)..(13)
 10 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (71)..(71)
 15 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (88)..(88)
 20 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (91)..(91)
 25 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (109)..(109)
 30 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (157)..(157)
 35 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (177)..(177)
 40 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (199)..(199)
 45 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (207)..(207)
 <223> n is a, c, g, or t
 5
 <220>
 <221> misc_feature
 <222> (211)..(211)
 <223> n is a, c, g, or t
 10
 <400> 24
 ccggncacca cnttaaggt tgggggattt ccccaaaaaa ggaaaatttt cggcggccaa 60
 cggaaggcc nttggggaaa aaaccaangg ncaaaccccc ccaaccacnc ggcccccccc 120
 15 aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag 180
 gccaaccacc tttaacanc cccaangcg nggaagccat ttcttgg 227
 20
 <210> 25
 <211> 306
 <212> DNA
 <213> Human
 25
 <400> 25
 tccaaaagta gagcagaggg atattttgtt ctactgagcc acgaaaaaca cctgaattgt 60
 ttcgaccatg tgccttccca gggtgatgaa gacattgcta cacagtctgc agatcaggaa 120
 30 ggaagaattg tatgtgggag ttttaatgg tctcattca ttggctataa ctcagttaca 180
 aggagaaata taactgcaga ggagcttga aaatttagtt cagctgaggg taaaggaaga 240
 35 agagacaaat ttgtcatca gctagtgtgc tgccatacaa ggtgttcctt taatatgtgt 300
 agaatg 306
 40
 <210> 26
 <211> 492
 <212> DNA
 <213> Human
 45
 <220>

<221> misc_feature
 <222> (299)..(299)
 <223> n is a, c, g, or t

 5 <220>
 <221> misc_feature
 <222> (333)..(333)
 <223> n is a, c, g, or t

 10 <220>
 <221> misc_feature
 <222> (353)..(353)
 <223> n is a, c, g, or t

 15 <220>
 <221> misc_feature
 <222> (410)..(411)
 <223> n is a, c, g, or t

 20 <220>
 <221> misc_feature
 <222> (460)..(460)
 <223> n is a, c, g, or t

 25 <220>
 <221> misc_feature
 <222> (474)..(474)
 <223> n is a, c, g, or t

 30 <220>
 <221> misc_feature
 <222> (479)..(479)
 <223> n is a, c, g, or t

 35 <400> 26
 cggcttcggg ccaagcgttt ccagagtttg ccgaactgct gagcaagttc gctattctcc 60

 agatgccta gccctttgcg ggcgaccacc acgatgtccc agcctgtcag gttgtcctga 120

 40 ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg 180

 acgctctttt tgccgatcac caaacctagg cggggatgat caagctgggt atcgcgcgct 240

 agcagcagga cacttttgcc cgggagcttt accgcttggg gagtcgaaga ctgccttgna 300
 45 ttgccgggga gtcagcagtc gctttttccc ggncgaagcc tcgaactcac cancctgtct 360

ggattaatta gacagcaaga cgcttgccgc ccctttggcg cgaacgaacn ncgaaaagga 420

cttgccgcgc ccgtttcttt ggggggcca taccggggcn cggggaaaac ccgnggggng 480

5

gccaaccccc cc 492

<210> 27

10 <211> 500

<212> DNA

<213> Human

15 <220>

<221> misc_feature

<222> (348)..(348)

<223> n is a, c, g, or t

20 <220>

<221> misc_feature

<222> (422)..(422)

<223> n is a, c, g, or t

25 <220>

<221> misc_feature

<222> (435)..(435)

<223> n is a, c, g, or t

30 <220>

<221> misc_feature

<222> (476)..(476)

<223> n is a, c, g, or t

35 <220>

<221> misc_feature

<222> (490)..(490)

<223> n is a, c, g, or t

40 <400> 27

cgaagcgatg gaagcgcaag ctggtaggg gagcattccc acggcagaga aggtcgggcg 60

acgagccggg ctggagcggg gggaaaagca aatgtaggca taagtaacga caatgcgggc 120

45 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

gtcgggtact aaggcgtag cgaaggcgaa gcgccgatgt gaaggggggtt aatattcctc 240
 cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300
 5 tgggcgccag caggggcggc cttcgggccca aaccgaacct caggtcanac ttccaagaaa 360
 agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg 420
 anaacatcct aagngctcg agagtacttt ctagagcggc cgcgggcccc atcgantttt 480
 10 ccacccgggn ggggtaccag 500

<210> 28
 15 <211> 231
 <212> DNA
 <213> Human
 20 <220>
 <221> misc_feature
 <222> (18)..(18)
 <223> n is a, c, g, or t
 25 <220>
 <221> misc_feature
 <222> (47)..(47)
 <223> n is a, c, g, or t
 30 <220>
 <221> misc_feature
 <222> (59)..(59)
 <223> n is a, c, g, or t
 35 <220>
 <221> misc_feature
 <222> (74)..(74)
 <223> n is a, c, g, or t
 40 <220>
 <221> misc_feature
 <222> (138)..(138)
 <223> n is a, c, g, or t
 45 <220>
 <221> misc_feature

<222> (174)..(174)
<223> n is a, c, g, or t

<220>

5 <221> misc_feature
<222> (176)..(176)
<223> n is a, c, g, or t

<220>

10 <221> misc_feature
<222> (211)..(211)
<223> n is a, c, g, or t

<400> 28

15 aagaaattcc gggcacgnag gcacgccctt ggtaattccc caggcgnact tctggggang 60

gctggaaggc ttgnagggca gaaaagggat ccgcctttgg gaggaacca ggtaagggtt 120

aagaaggaac ccacctngg ggccaaacaa aaacttaaaa acccccccat ttentncccc 180
20 ccaaaaaaaaa aatttttaaa aaaaattttt ngcccccggg ggcattgggg g 231

<210> 29

25 <211> 109
<212> DNA
<213> Human

30 <220>

<221> misc_feature
<222> (1)..(2)
<223> n is a, c, g, or t

35 <220>

<221> misc_feature
<222> (12)..(12)
<223> n is a, c, g, or t

40 <220>

<221> misc_feature
<222> (29)..(29)
<223> n is a, c, g, or t

45 <220>

<221> misc_feature

<222> (34)..(34)

<223> n is a, c, g, or t

<400> 29

5 nncgaacaat angtctggag ctcgtgcgnc ctgnaggtgc gacactagtg gatccaaaga 60

attcggcacg agggattaca gtcgtgagcc actgcacctg gctgcaatt 109

10 <210> 30

<211> 100

<212> DNA

<213> Human

15

<220>

<221> misc_feature

<222> (3)..(6)

<223> n is a, c, g, or t

20

<220>

<221> misc_feature

<222> (8)..(8)

<223> n is a, c, g, or t

25

<220>

<221> misc_feature

<222> (13)..(13)

<223> n is a, c, g, or t

30

<220>

<221> misc_feature

<222> (15)..(15)

<223> n is a, c, g, or t

35

<220>

<221> misc_feature

<222> (20)..(20)

<223> n is a, c, g, or t

40

<220>

<221> misc_feature

<222> (27)..(27)

<223> n is a, c, g, or t

45

<220>

<221> misc_feature
<222> (32)..(33)
<223> n is a, c, g, or t

5 <220>
<221> misc_feature
<222> (40)..(40)
<223> n is a, c, g, or t

10 <220>
<221> misc_feature
<222> (49)..(50)
<223> n is a, c, g, or t

15 <220>
<221> misc_feature
<222> (57)..(57)
<223> n is a, c, g, or t

20 <220>
<221> misc_feature
<222> (63)..(63)
<223> n is a, c, g, or t

25 <220>
<221> misc_feature
<222> (67)..(67)
<223> n is a, c, g, or t

30 <220>
<221> misc_feature
<222> (69)..(69)
<223> n is a, c, g, or t

35 <220>
<221> misc_feature
<222> (76)..(76)
<223> n is a, c, g, or t

40 <220>
<221> misc_feature
<222> (78)..(78)
<223> n is a, c, g, or t

45 <220>
<221> misc_feature

<222> (87)..(87)
 <223> n is a, c, g, or t

 <220>
 5 <221> misc_feature
 <222> (89)..(89)
 <223> n is a, c, g, or t

 <400> 30
 10 tcnnntntg gtntnggctn tccgagnggc anngagtgan tgcccgttnn tattgancac 60

 cantcantng ttgcctntg atacccnana caaaattgaa 100

 15 <210> 31
 <211> 100
 <212> DNA
 <213> Human

 20
 <220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n is a, c, g, or t
 25
 <220>
 <221> misc_feature
 <222> (26)..(26)
 <223> n is a, c, g, or t
 30
 <220>
 <221> misc_feature
 <222> (46)..(46)
 <223> n is a, c, g, or t
 35
 <220>
 <221> misc_feature
 <222> (49)..(49)
 <223> n is a, c, g, or t
 40
 <220>
 <221> misc_feature
 <222> (55)..(55)
 <223> n is a, c, g, or t
 45
 <220>

<221> misc_feature
 <222> (60)..(60)
 <223> n is a, c, g, or t

 5 <220>
 <221> misc_feature
 <222> (63)..(63)
 <223> n is a, c, g, or t

 10 <220>
 <221> misc_feature
 <222> (69)..(70)
 <223> n is a, c, g, or t

 15 <220>
 <221> misc_feature
 <222> (73)..(73)
 <223> n is a, c, g, or t

 20 <220>
 <221> misc_feature
 <222> (79)..(79)
 <223> n is a, c, g, or t

 25 <220>
 <221> misc_feature
 <222> (92)..(92)
 <223> n is a, c, g, or t

 30 <220>
 <221> misc_feature
 <222> (96)..(96)
 <223> n is a, c, g, or t

 35 <400> 31
 tcgggcgggg anccctttac ctgtenttac gatgcgcaag tagatnccng atttngtcen 60

 ganggtcggn aanttaggnt tccagcctgc gncacngcca 100

 40
 <210> 32
 <211> 104
 <212> DNA
 <213> Human
 45

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n is a, c, g, or t
 5
 <220>
 <221> misc_feature
 <222> (7)..(7)
 <223> n is a, c, g, or t
 10
 <220>
 <221> misc_feature
 <222> (27)..(27)
 <223> n is a, c, g, or t
 15
 <220>
 <221> misc_feature
 <222> (34)..(34)
 <223> n is a, c, g, or t
 20
 <220>
 <221> misc_feature
 <222> (57)..(57)
 <223> n is a, c, g, or t
 25
 <220>
 <221> misc_feature
 <222> (63)..(64)
 <223> n is a, c, g, or t
 30
 <220>
 <221> misc_feature
 <222> (67)..(67)
 <223> n is a, c, g, or t
 35
 <220>
 <221> misc_feature
 <222> (73)..(73)
 <223> n is a, c, g, or t
 40
 <220>
 <221> misc_feature
 <222> (75)..(78)
 <223> n is a, c, g, or t
 45
 <220>

<221> misc_feature
 <222> (80)..(80)
 <223> n is a, c, g, or t

5 <220>
 <221> misc_feature
 <222> (90)..(90)
 <223> n is a, c, g, or t

10 <220>
 <221> misc_feature
 <222> (96)..(98)
 <223> n is a, c, g, or t

15 <400> 32
 cntgctntta cgatgcgcaa ggtagtnccg tgantttagt ccgtgatgtg tcgaaanatt 60

 agnnttncag ccngnnnnan tgccatttn gctctnnnga gaaa 104

20
 <210> 33
 <211> 102
 <212> DNA
 <213> Human

25

 <220>
 <221> misc_feature
 <222> (5)..(5)
 30 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (12)..(12)
 35 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (28)..(28)
 40 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (32)..(32)
 45 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (38)..(38)
 <223> n is a, c, g, or t
 5
 <220>
 <221> misc_feature
 <222> (44)..(44)
 <223> n is a, c, g, or t
 10
 <220>
 <221> misc_feature
 <222> (57)..(57)
 <223> n is a, c, g, or t
 15
 <220>
 <221> misc_feature
 <222> (68)..(68)
 <223> n is a, c, g, or t
 20
 <220>
 <221> misc_feature
 <222> (76)..(76)
 <223> n is a, c, g, or t
 25
 <220>
 <221> misc_feature
 <222> (82)..(82)
 <223> n is a, c, g, or t
 30
 <220>
 <221> misc_feature
 <222> (92)..(92)
 <223> n is a, c, g, or t
 35
 <400> 33
 tgggntggcc cngcttaact ttgcccncg anctcgngt tcgnacaggg gcgaagnaaa 60
 ccgccaantt tttcnaacc cnaactgttt tnggttttag tt 102
 40
 <210> 34
 <211> 100
 <212> DNA
 45 <213> Human

<220>
 <221> misc_feature
 <222> (3)..(3)
 5 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (21)..(21)
 10 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (27)..(28)
 15 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (38)..(38)
 20 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (47)..(47)
 25 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (50)..(50)
 30 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (53)..(53)
 35 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (61)..(61)
 40 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (73)..(73)
 45 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (78)..(78)
 <223> n is a, c, g, or t
 5
 <220>
 <221> misc_feature
 <222> (83)..(83)
 <223> n is a, c, g, or t
 10
 <220>
 <221> misc_feature
 <222> (85)..(85)
 <223> n is a, c, g, or t
 15
 <220>
 <221> misc_feature
 <222> (97)..(97)
 <223> n is a, c, g, or t
 20
 <400> 34
 agnacgcctt tacagcttta ngatgcnnnga gagagtancg gatttgnccn tgntggtgga 60
 naaattaggg tincagcntg tgnantgcca ttttcgntaa 100
 25
 <210> 35
 <211> 100
 <212> DNA
 30 <213> Human
 <220>
 <221> misc_feature
 35 <222> (21)..(22)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 40 <222> (28)..(28)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 45 <222> (32)..(32)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (65)..(65)
 5 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (67)..(68)
 10 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (70)..(70)
 15 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (77)..(77)
 20 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (83)..(83)
 25 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (92)..(92)
 30 <223> n is a, c, g, or t

<400> 35
 cacgatagca tcagacggcg ncttgngc cntttgccc gctggtcaca ggacaacgca 60

35 tttnccnntn tgggtncgg cnttcacgca tnggcgcgag 100

<210> 36
 <211> 153
 40 <212> DNA
 <213> Human

<220>
 45 <221> misc_feature
 <222> (4)..(4)

<223> n is a, c, g, or t

 <220>
 <221> misc_feature
 5 <222> (8)..(8)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 10 <222> (29)..(29)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 15 <222> (43)..(44)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 20 <222> (46)..(46)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 25 <222> (57)..(57)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 30 <222> (59)..(59)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 35 <222> (84)..(84)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 40 <222> (98)..(98)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 45 <222> (115)..(115)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (117)..(118)
 5 <223> n is a, c, g, or t

 <400> 36
 tggngccntt ttgccgctg gtcacaggna aacgcatttc acnntntggt gttcggntnt 60

 10 cacgcacggc agcgagtgc atgnccgatt cattcttnaa cgacgcacac acccngnngc 120

 cctgtgaaac ccataaacag tgggaaatgg tgc 153

 15 <210> 37
 <211> 151
 <212> DNA
 <213> Human

 20
 <220>
 <221> misc_feature
 <222> (7)..(7)
 <223> n is a, c, g, or t
 25
 <220>
 <221> misc_feature
 <222> (10)..(10)
 <223> n is a, c, g, or t
 30
 <220>
 <221> misc_feature
 <222> (53)..(53)
 <223> n is a, c, g, or t
 35
 <220>
 <221> misc_feature
 <222> (61)..(61)
 <223> n is a, c, g, or t
 40
 <220>
 <221> misc_feature
 <222> (65)..(66)
 <223> n is a, c, g, or t
 45
 <220>

<221> misc_feature
 <222> (72)..(72)
 <223> n is a, c, g, or t

5 <220>
 <221> misc_feature
 <222> (74)..(75)
 <223> n is a, c, g, or t

10 <220>
 <221> misc_feature
 <222> (89)..(89)
 <223> n is a, c, g, or t

15 <220>
 <221> misc_feature
 <222> (94)..(94)
 <223> n is a, c, g, or t

20 <220>
 <221> misc_feature
 <222> (100)..(100)
 <223> n is a, c, g, or t

25 <220>
 <221> misc_feature
 <222> (107)..(107)
 <223> n is a, c, g, or t

30 <220>
 <221> misc_feature
 <222> (126)..(126)
 <223> n is a, c, g, or t

35 <220>
 <221> misc_feature
 <222> (141)..(141)
 <223> n is a, c, g, or t

40 <400> 37
 ggcgcgcntgn aggccccgac actagtggat ccaaagtatt ttggcacgag ctnagttcga 60
 ngatnnagac cncnnatcac ctaatacanc catnactcan atgactnttt gtgcgccttt 120

45 tatcanatgc atagcctatc naaaacatca c 151

<210> 38
 <211> 100
 <212> DNA
 5 <213> Human

<220>
 <221> misc_feature
 10 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 15 <222> (10)..(10)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 20 <222> (61)..(61)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 25 <222> (63)..(63)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 30 <222> (72)..(72)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 35 <222> (79)..(79)
 <223> n is a, c, g, or t

<400> 38
 gngcgcttgn aggccgacac taggggatcc aaagaattcg gcacgagctc gtgccgaatt 60
 40 ngncacgagt tnggctgcnt cttatacaa cttttcttca 100

<210> 39
 45 <211> 100
 <212> DNA

<213> Human

<220>

5 <221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>

10 <221> misc_feature
<222> (7)..(8)
<223> n is a, c, g, or t

<220>

15 <221> misc_feature
<222> (10)..(10)
<223> n is a, c, g, or t

<220>

20 <221> misc_feature
<222> (15)..(16)
<223> n is a, c, g, or t

<220>

25 <221> misc_feature
<222> (20)..(20)
<223> n is a, c, g, or t

<220>

30 <221> misc_feature
<222> (24)..(24)
<223> n is a, c, g, or t

<220>

35 <221> misc_feature
<222> (71)..(71)
<223> n is a, c, g, or t

<400> 39

40 aaagnnntn ctggnnttan gcanttaacc caggcactgg ggcgctgaac agctactcag 60
ctgcttaagt ngtcctactg gtccagacca gcgacccagc 100

45 <210> 40
<211> 102

<212> DNA
<213> Human

5 <220>
<221> misc_feature
<222> (80)..(80)
<223> n is a, c, g, or t

10 <220>
<221> misc_feature
<222> (91)..(91)
<223> n is a, c, g, or t

15 <400> 40
ttccccagg atctttctta tatctatcag atctaggatga aaggattact gtcttgtagg 60

tgtcctgaag gacaagccgn ttcgttgaa nctgtgaaat ac 102

20
<210> 41
<211> 325
<212> DNA
<213> Human

25
<400> 41
ttcggcacga ggagaagaga ggagccgtca gaacatatgg gggatgtgtt caagaagcag 60

atttgtggtc ggaagctttg caaagagggg acctgggtct gactgacatg cgtggccact 120

30
ggtgctcctg cgtttggact gtgcaggcct ctctatgct gatgcgtctc ccactcctg 180

agctaatttc tgctctgctc cttctgtgac atgtggcagc gtgggaaata gccactgtcc 240

35
cctgtccctg ctgttctcgg tgcacccag caccaggcca ctctgggagc cagggcagat 300

ggtcctccct gtggtcctgg cctct 325

40 <210> 42
<211> 103
<212> DNA
<213> Human

45
<220>

<221> misc_feature
 <222> (14)..(14)
 <223> n is a, c, g, or t

 5 <220>
 <221> misc_feature
 <222> (31)..(31)
 <223> n is a, c, g, or t

 10 <220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n is a, c, g, or t

 15 <220>
 <221> misc_feature
 <222> (63)..(63)
 <223> n is a, c, g, or t

 20 <220>
 <221> misc_feature
 <222> (73)..(73)
 <223> n is a, c, g, or t

 25 <220>
 <221> misc_feature
 <222> (93)..(93)
 <223> n is a, c, g, or t

 30 <220>
 <221> misc_feature
 <222> (98)..(98)
 <223> n is a, c, g, or t

 35 <400> 42
 gtggcccaag gggactgaa ggggccctcc ntaagnggag gggttgggga gtaaggcctg 60

 ggnaggaccc tgntgactcg gggggcggga gcngggancc agg 103

 40
 <210> 43
 <211> 221
 <212> DNA
 <213> Human

 45
 <400> 43

catattttga aatacttttc tcccaaactg ggtttattag cgtgtaccct gctttccac 60

tttaaaaatt tatgccatat gtccagcttc cagtcagtgcc ttctgggttag catgaggata 120

5 actagatttt actgtagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt 180

ttggtagcct cagtgtctctt atcccaagta aaagcaaagt t 221

10 <210> 44
<211> 100
<212> DNA
<213> Human

15 <220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

20 <220>
<221> misc_feature
<222> (11)..(11)
<223> n is a, c, g, or t

25 <220>
<221> misc_feature
<222> (27)..(28)
<223> n is a, c, g, or t

30 <220>
<221> misc_feature
<222> (34)..(34)
<223> n is a, c, g, or t

35 <220>
<221> misc_feature
<222> (38)..(39)
<223> n is a, c, g, or t

40 <220>
<221> misc_feature
<222> (41)..(41)
<223> n is a, c, g, or t

45 <220>

<221> misc_feature
 <222> (49)..(50)
 <223> n is a, c, g, or t

 5 <220>
 <221> misc_feature
 <222> (61)..(62)
 <223> n is a, c, g, or t

 10 <220>
 <221> misc_feature
 <222> (67)..(68)
 <223> n is a, c, g, or t

 15 <220>
 <221> misc_feature
 <222> (76)..(76)
 <223> n is a, c, g, or t

 20 <220>
 <221> misc_feature
 <222> (79)..(80)
 <223> n is a, c, g, or t

 25 <220>
 <221> misc_feature
 <222> (85)..(85)
 <223> n is a, c, g, or t

 30 <220>
 <221> misc_feature
 <222> (89)..(89)
 <223> n is a, c, g, or t

 35 <220>
 <221> misc_feature
 <222> (93)..(93)
 <223> n is a, c, g, or t

 40 <400> 44
 anagatatca ntgatttatt gctgggnncc tgtntganng ntctaaggnn tgaagattat 60

 nncattnngc aagcgnacnn gcgcngccna gcngaccagg 100

 45
 <210> 45

<211> 106
 <212> DNA
 <213> Human

5

<220>
 <221> misc_feature
 <222> (8)..(8)
 <223> n is a, c, g, or t

10

<220>
 <221> misc_feature
 <222> (24)..(24)
 <223> n is a, c, g, or t

15

<220>
 <221> misc_feature
 <222> (33)..(34)
 <223> n is a, c, g, or t

20

<220>
 <221> misc_feature
 <222> (47)..(48)
 <223> n is a, c, g, or t

25

<220>
 <221> misc_feature
 <222> (58)..(58)
 <223> n is a, c, g, or t

30

<220>
 <221> misc_feature
 <222> (63)..(63)
 <223> n is a, c, g, or t

35

<220>
 <221> misc_feature
 <222> (68)..(68)
 <223> n is a, c, g, or t

40

<220>
 <221> misc_feature
 <222> (71)..(71)
 <223> n is a, c, g, or t

45

<220>

<221> misc_feature
 <222> (73)..(73)
 <223> n is a, c, g, or t

5 <220>
 <221> misc_feature
 <222> (77)..(77)
 <223> n is a, c, g, or t

10 <220>
 <221> misc_feature
 <222> (88)..(88)
 <223> n is a, c, g, or t

15 <220>
 <221> misc_feature
 <222> (95)..(96)
 <223> n is a, c, g, or t

20 <400> 45
 atatttcngg agcttgacgc ggcnacacta ggcnactaaa agaattnnag aaagaggnc 60
 atnggacnag nanacangaa acctgcanac ttggnggctt ggaagt 106

25
 <210> 46
 <211> 100
 <212> DNA
 <213> Human

30
 <220>
 <221> misc_feature
 <222> (74)..(74)
 35 <223> n is a, c, g, or t

<400> 46
 gatgtggaga tgcttgatag gttactgggc ggcaatccag gagttgatga agcgcatatg 60

40 cgaacatttc acngncatat tgcggtgcaa gggcttactg 100

<210> 47
 <211> 101
 45 <212> DNA
 <213> Human

<220>
 <221> misc_feature
 5 <222> (7)..(8)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 10 <222> (17)..(17)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 15 <222> (23)..(23)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 20 <222> (33)..(33)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 25 <222> (42)..(42)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 30 <222> (47)..(48)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 35 <222> (52)..(52)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 40 <222> (55)..(55)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 45 <222> (60)..(60)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (62)..(62)
 5 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (66)..(66)
 10 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (70)..(71)
 15 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (74)..(74)
 20 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (84)..(84)
 25 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (86)..(87)
 30 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (96)..(96)
 35 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (99)..(100)
 40 <223> n is a, c, g, or t

<400> 47
 ccccccncc cttctntcc ccnaaagaat aanataagaa tngctannga gnaancgacn 60

45 anggtnttan nagntatatg tatntnncaa accaantann a 101

<210> 48
 <211> 100
 <212> DNA
 5 <213> Human

<220>
 <221> misc_feature
 10 <222> (5)..(6)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 15 <222> (33)..(33)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 20 <222> (35)..(36)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 25 <222> (42)..(42)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 30 <222> (46)..(46)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 35 <222> (48)..(48)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 40 <222> (55)..(55)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 45 <222> (59)..(59)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (69)..(69)
 5 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (81)..(81)
 10 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (87)..(87)
 15 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (91)..(91)
 20 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (94)..(94)
 25 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (97)..(97)
 30 <223> n is a, c, g, or t

<400> 48
 aaggnnaggc tcgttggggg aaaaaacccg centnncggg cccccngnaa acccncacna 60
 35 ggggaccna aaaaccggaa naaacnccc nagnaancca 100

<210> 49
 <211> 473
 40 <212> DNA
 <213> Human

<220>
 45 <221> misc_feature
 <222> (20)..(20)

<223> n is a, c, g, or t

<220>

<221> misc_feature

5 <222> (38)..(38)

<223> n is a, c, g, or t

<220>

<221> misc_feature

10 <222> (164)..(164)

<223> n is a, c, g, or t

<220>

<221> misc_feature

15 <222> (178)..(178)

<223> n is a, c, g, or t

<220>

<221> misc_feature

20 <222> (201)..(201)

<223> n is a, c, g, or t

<220>

<221> misc_feature

25 <222> (211)..(211)

<223> n is a, c, g, or t

<220>

<221> misc_feature

30 <222> (274)..(274)

<223> n is a, c, g, or t

<220>

<221> misc_feature

35 <222> (305)..(305)

<223> n is a, c, g, or t

<220>

<221> misc_feature

40 <222> (340)..(340)

<223> n is a, c, g, or t

<220>

<221> misc_feature

45 <222> (346)..(346)

<223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (386)..(387)
 5 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (405)..(405)
 10 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (433)..(433)
 15 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (446)..(446)
 20 <223> n is a, c, g, or t

 <400> 49
 atgagtatga aatgaaaggn tgagatgaaa tgatgatntg agatgagatg aaatgagatg 60
 25 aaaccgagat gaaatgatga aatgatgaga tgagaccgag acgaaatgat gagatgaaat 120
 gagatgagat aaaatgagat gaaatgaagt gaaatgaaat gaantcctga aattgacntg 180
 agatgaactg agataaaatg ntgagatgaa ntgatgagaa gaaatgagat gaaatgagat 240
 30 gagatgatga gatgaaaaat gctgagatga aacntgatga gatgaaatga tgagatgaat 300
 tgaantgaaa tgaataatg aaataatgac ctgagatgan atgaantgat gaactgatga 360
 35 actaatgaaa tgaatatgaa atgganntga tgagatgaga agaantgctg agatgagata 420
 aaatgagatg aantgatgag atgaantgaa atgctgagat gagatgagat gaa 473

 40 <210> 50
 <211> 453
 <212> DNA
 <213> Human
 45 <220>

<221> misc_feature
<222> (5)..(6)
<223> n is a, c, g, or t

5 <220>
<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, or t

10 <220>
<221> misc_feature
<222> (18)..(18)
<223> n is a, c, g, or t

15 <220>
<221> misc_feature
<222> (22)..(22)
<223> n is a, c, g, or t

20 <220>
<221> misc_feature
<222> (39)..(39)
<223> n is a, c, g, or t

25 <220>
<221> misc_feature
<222> (45)..(45)
<223> n is a, c, g, or t

30 <220>
<221> misc_feature
<222> (48)..(48)
<223> n is a, c, g, or t

35 <220>
<221> misc_feature
<222> (54)..(54)
<223> n is a, c, g, or t

40 <220>
<221> misc_feature
<222> (65)..(65)
<223> n is a, c, g, or t

45 <220>
<221> misc_feature

<222> (70)..(70)
 <223> n is a, c, g, or t

<220>

5 <221> misc_feature
 <222> (72)..(72)
 <223> n is a, c, g, or t

<220>

10 <221> misc_feature
 <222> (80)..(80)
 <223> n is a, c, g, or t

<220>

15 <221> misc_feature
 <222> (83)..(83)
 <223> n is a, c, g, or t

<220>

20 <221> misc_feature
 <222> (90)..(90)
 <223> n is a, c, g, or t

<220>

25 <221> misc_feature
 <222> (94)..(94)
 <223> n is a, c, g, or t

<220>

30 <221> misc_feature
 <222> (96)..(96)
 <223> n is a, c, g, or t

<220>

35 <221> misc_feature
 <222> (98)..(98)
 <223> n is a, c, g, or t

<220>

40 <221> misc_feature
 <222> (102)..(102)
 <223> n is a, c, g, or t

<220>

45 <221> misc_feature
 <222> (104)..(104)

<223> n is a, c, g, or t

<220>

<221> misc_feature

5 <222> (113)..(113)

<223> n is a, c, g, or t

<220>

<221> misc_feature

10 <222> (115)..(115)

<223> n is a, c, g, or t

<220>

<221> misc_feature

15 <222> (117)..(117)

<223> n is a, c, g, or t

<220>

<221> misc_feature

20 <222> (121)..(121)

<223> n is a, c, g, or t

<220>

<221> misc_feature

25 <222> (123)..(123)

<223> n is a, c, g, or t

<220>

<221> misc_feature

30 <222> (125)..(125)

<223> n is a, c, g, or t

<220>

<221> misc_feature

35 <222> (128)..(128)

<223> n is a, c, g, or t

<220>

<221> misc_feature

40 <222> (142)..(142)

<223> n is a, c, g, or t

<220>

<221> misc_feature

45 <222> (144)..(144)

<223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (160)..(160)
 5 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (174)..(175)
 10 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (180)..(181)
 15 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (186)..(186)
 20 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (192)..(192)
 25 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (198)..(198)
 30 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (205)..(205)
 35 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (215)..(215)
 40 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (223)..(224)
 45 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (233)..(234)
 <223> n is a, c, g, or t
 5
 <220>
 <221> misc_feature
 <222> (238)..(238)
 <223> n is a, c, g, or t
 10
 <220>
 <221> misc_feature
 <222> (243)..(243)
 <223> n is a, c, g, or t
 15
 <220>
 <221> misc_feature
 <222> (253)..(253)
 <223> n is a, c, g, or t
 20
 <220>
 <221> misc_feature
 <222> (257)..(257)
 <223> n is a, c, g, or t
 25
 <220>
 <221> misc_feature
 <222> (268)..(268)
 <223> n is a, c, g, or t
 30
 <220>
 <221> misc_feature
 <222> (280)..(280)
 <223> n is a, c, g, or t
 35
 <220>
 <221> misc_feature
 <222> (291)..(291)
 <223> n is a, c, g, or t
 40
 <220>
 <221> misc_feature
 <222> (296)..(296)
 <223> n is a, c, g, or t
 45
 <220>

<221> misc_feature
 <222> (300)..(300)
 <223> n is a, c, g, or t

5 <220>
 <221> misc_feature
 <222> (305)..(305)
 <223> n is a, c, g, or t

10 <220>
 <221> misc_feature
 <222> (308)..(308)
 <223> n is a, c, g, or t

15 <220>
 <221> misc_feature
 <222> (311)..(311)
 <223> n is a, c, g, or t

20 <220>
 <221> misc_feature
 <222> (319)..(319)
 <223> n is a, c, g, or t

25 <220>
 <221> misc_feature
 <222> (322)..(322)
 <223> n is a, c, g, or t

30 <220>
 <221> misc_feature
 <222> (326)..(326)
 <223> n is a, c, g, or t

35 <220>
 <221> misc_feature
 <222> (328)..(328)
 <223> n is a, c, g, or t

40 <220>
 <221> misc_feature
 <222> (334)..(335)
 <223> n is a, c, g, or t

45 <220>
 <221> misc_feature

<222> (338)..(339)
 <223> n is a, c, g, or t

<220>

5 <221> misc_feature
 <222> (347)..(347)
 <223> n is a, c, g, or t

<220>

10 <221> misc_feature
 <222> (352)..(352)
 <223> n is a, c, g, or t

<220>

15 <221> misc_feature
 <222> (358)..(358)
 <223> n is a, c, g, or t

<220>

20 <221> misc_feature
 <222> (361)..(361)
 <223> n is a, c, g, or t

<220>

25 <221> misc_feature
 <222> (367)..(367)
 <223> n is a, c, g, or t

<220>

30 <221> misc_feature
 <222> (382)..(382)
 <223> n is a, c, g, or t

<220>

35 <221> misc_feature
 <222> (389)..(389)
 <223> n is a, c, g, or t

<220>

40 <221> misc_feature
 <222> (395)..(395)
 <223> n is a, c, g, or t

<220>

45 <221> misc_feature
 <222> (410)..(410)

<223> n is a, c, g, or t

<220>

<221> misc_feature

5 <222> (413)..(414)

<223> n is a, c, g, or t

<220>

<221> misc_feature

10 <222> (418)..(418)

<223> n is a, c, g, or t

<220>

<221> misc_feature

15 <222> (425)..(425)

<223> n is a, c, g, or t

<220>

<221> misc_feature

20 <222> (436)..(436)

<223> n is a, c, g, or t

<220>

<221> misc_feature

25 <222> (443)..(443)

<223> n is a, c, g, or t

<400> 50

30 ttccnnagct gtnacganac antcttgaat tgaaattgna cacancnctgt gtgnagccct 60

gatanggccn gnaagcaatn tanaggatan ccgnangnta tngnaacaca ttncncnagc 120

ntntncanca gctgatgcag gncncctatg atgcgattan ggactacgac tatnnetcan 180

35 ngctcnaaca gncgcgangg ctgantacta aaagnacaca aanntgtgca ccnncatnac 240

tcncgttgac tgnacantgt agacctgnaa tacctggctn aaaggggtct nactgncatn 300

40 agagntgnag ntgccctnc antagnnga gctnnaanng gcctgtnttt gnittacntc 360

ntcgganagg cgatgccatt anagaccna gaacncattg gtgatatacn ctnnaccngg 420

agggnntaca ttgggnaatg atnattatgg ggg 453

45 <210> 51

<211> 542
 <212> DNA
 <213> Human

5

<220>
 <221> misc_feature
 <222> (19)..(19)
 <223> n is a, c, g, or t

10

<220>
 <221> misc_feature
 <222> (59)..(59)
 <223> n is a, c, g, or t

15

<220>
 <221> misc_feature
 <222> (87)..(87)
 <223> n is a, c, g, or t

20

<220>
 <221> misc_feature
 <222> (119)..(119)
 <223> n is a, c, g, or t

25

<220>
 <221> misc_feature
 <222> (203)..(203)
 <223> n is a, c, g, or t

30

<220>
 <221> misc_feature
 <222> (215)..(215)
 <223> n is a, c, g, or t

35

<220>
 <221> misc_feature
 <222> (274)..(274)
 <223> n is a, c, g, or t

40

<220>
 <221> misc_feature
 <222> (296)..(296)
 <223> n is a, c, g, or t

45

<220>

<221> misc_feature
 <222> (309)..(309)
 <223> n is a, c, g, or t

5 <220>
 <221> misc_feature
 <222> (353)..(353)
 <223> n is a, c, g, or t

10 <220>
 <221> misc_feature
 <222> (425)..(427)
 <223> n is a, c, g, or t

15 <220>
 <221> misc_feature
 <222> (431)..(431)
 <223> n is a, c, g, or t

20 <220>
 <221> misc_feature
 <222> (451)..(451)
 <223> n is a, c, g, or t

25 <220>
 <221> misc_feature
 <222> (470)..(470)
 <223> n is a, c, g, or t

30 <220>
 <221> misc_feature
 <222> (472)..(472)
 <223> n is a, c, g, or t

35 <220>
 <221> misc_feature
 <222> (478)..(478)
 <223> n is a, c, g, or t

40 <400> 51
 caactgtgag caaggaatnc cattaaatgc cattgtatat tcattgatca gtgaaatcnc 60

atctgggtca cagtggcatc tatgttnaca gtataaatcc ctgtggctat gaatgaaang 120

45 ctgtgttaga ctgcatctg cacatagaag tagggatttc atgctgttat cagcctaatt 180

ttagcctata gaatttcaag ttngctagag gtttngctct ccatggtata agttagcaa 240

gaaaagtcatt ttgtctgctg ctctagcagg ttanaatgtg gaagtatagt gtgcanagtt 300

5 ttaatccgna tatgttatta aaacatatac atcattttat atcatacatc tagnaataaat 360

attcaaaaatt aaatagtgat ttgggattga ttacatctta ttactagctg taataaatga 420

cctcnnngat ngtttaaaat tgttttctc ncatataata aaaatacctn angcatanat 480

10 cgattgtcca aaaattgaat atatatacac acctcttcca ttagaactaa atatgtggaa 540

tg 542

15

<210> 52
<211> 733
<212> DNA
<213> Human

20

<220>
<221> misc_feature
<222> (13)..(14)
25 <223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (17)..(17)
30 <223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (20)..(20)
35 <223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (22)..(22)
40 <223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (27)..(27)
45 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (29)..(29)
 <223> n is a, c, g, or t
 5
 <220>
 <221> misc_feature
 <222> (31)..(31)
 <223> n is a, c, g, or t
 10
 <220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n is a, c, g, or t
 15
 <220>
 <221> misc_feature
 <222> (43)..(43)
 <223> n is a, c, g, or t
 20
 <220>
 <221> misc_feature
 <222> (46)..(46)
 <223> n is a, c, g, or t
 25
 <220>
 <221> misc_feature
 <222> (58)..(59)
 <223> n is a, c, g, or t
 30
 <220>
 <221> misc_feature
 <222> (74)..(74)
 <223> n is a, c, g, or t
 35
 <220>
 <221> misc_feature
 <222> (78)..(78)
 <223> n is a, c, g, or t
 40
 <220>
 <221> misc_feature
 <222> (81)..(81)
 <223> n is a, c, g, or t
 45
 <220>

<221> misc_feature
<222> (85)..(85)
<223> n is a, c, g, or t

5 <220>
<221> misc_feature
<222> (87)..(88)
<223> n is a, c, g, or t

10 <220>
<221> misc_feature
<222> (90)..(92)
<223> n is a, c, g, or t

15 <220>
<221> misc_feature
<222> (95)..(96)
<223> n is a, c, g, or t

20 <220>
<221> misc_feature
<222> (105)..(105)
<223> n is a, c, g, or t

25 <220>
<221> misc_feature
<222> (107)..(107)
<223> n is a, c, g, or t

30 <220>
<221> misc_feature
<222> (109)..(109)
<223> n is a, c, g, or t

35 <220>
<221> misc_feature
<222> (115)..(117)
<223> n is a, c, g, or t

40 <220>
<221> misc_feature
<222> (120)..(120)
<223> n is a, c, g, or t

45 <220>
<221> misc_feature

<222> (123)..(123)
 <223> n is a, c, g, or t

<220>

5 <221> misc_feature
 <222> (148)..(148)
 <223> n is a, c, g, or t

<220>

10 <221> misc_feature
 <222> (154)..(156)
 <223> n is a, c, g, or t

<220>

15 <221> misc_feature
 <222> (167)..(167)
 <223> n is a, c, g, or t

<220>

20 <221> misc_feature
 <222> (169)..(172)
 <223> n is a, c, g, or t

<220>

25 <221> misc_feature
 <222> (179)..(179)
 <223> n is a, c, g, or t

<220>

30 <221> misc_feature
 <222> (183)..(183)
 <223> n is a, c, g, or t

<220>

35 <221> misc_feature
 <222> (185)..(187)
 <223> n is a, c, g, or t

<220>

40 <221> misc_feature
 <222> (194)..(194)
 <223> n is a, c, g, or t

<220>

45 <221> misc_feature
 <222> (200)..(203)

<223> n is a, c, g, or t

 <220>
 <221> misc_feature
 5 <222> (205)..(205)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 10 <222> (235)..(236)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 15 <222> (242)..(242)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 20 <222> (244)..(244)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 25 <222> (246)..(247)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 30 <222> (250)..(250)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 35 <222> (303)..(303)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 40 <222> (305)..(305)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 45 <222> (318)..(318)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (327)..(327)
 5 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (331)..(331)
 10 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (335)..(336)
 15 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (347)..(347)
 20 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (349)..(349)
 25 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (353)..(353)
 30 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (362)..(362)
 35 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (365)..(365)
 40 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (388)..(388)
 45 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (395)..(395)
 <223> n is a, c, g, or t
 5
 <220>
 <221> misc_feature
 <222> (405)..(405)
 <223> n is a, c, g, or t
 10
 <220>
 <221> misc_feature
 <222> (407)..(407)
 <223> n is a, c, g, or t
 15
 <220>
 <221> misc_feature
 <222> (412)..(412)
 <223> n is a, c, g, or t
 20
 <220>
 <221> misc_feature
 <222> (416)..(416)
 <223> n is a, c, g, or t
 25
 <220>
 <221> misc_feature
 <222> (429)..(429)
 <223> n is a, c, g, or t
 30
 <220>
 <221> misc_feature
 <222> (435)..(435)
 <223> n is a, c, g, or t
 35
 <220>
 <221> misc_feature
 <222> (444)..(444)
 <223> n is a, c, g, or t
 40
 <220>
 <221> misc_feature
 <222> (475)..(475)
 <223> n is a, c, g, or t
 45
 <220>

<221> misc_feature
 <222> (481)..(481)
 <223> n is a, c, g, or t

5 <220>
 <221> misc_feature
 <222> (485)..(485)
 <223> n is a, c, g, or t

10 <220>
 <221> misc_feature
 <222> (488)..(488)
 <223> n is a, c, g, or t

15 <220>
 <221> misc_feature
 <222> (505)..(507)
 <223> n is a, c, g, or t

20 <220>
 <221> misc_feature
 <222> (525)..(525)
 <223> n is a, c, g, or t

25 <220>
 <221> misc_feature
 <222> (528)..(528)
 <223> n is a, c, g, or t

30 <220>
 <221> misc_feature
 <222> (532)..(532)
 <223> n is a, c, g, or t

35 <220>
 <221> misc_feature
 <222> (534)..(535)
 <223> n is a, c, g, or t

40 <220>
 <221> misc_feature
 <222> (543)..(543)
 <223> n is a, c, g, or t

45 <220>
 <221> misc_feature

<222> (551)..(553)
 <223> n is a, c, g, or t

<220>

5 <221> misc_feature
 <222> (555)..(555)
 <223> n is a, c, g, or t

<220>

10 <221> misc_feature
 <222> (561)..(561)
 <223> n is a, c, g, or t

<220>

15 <221> misc_feature
 <222> (568)..(568)
 <223> n is a, c, g, or t

<220>

20 <221> misc_feature
 <222> (573)..(573)
 <223> n is a, c, g, or t

<220>

25 <221> misc_feature
 <222> (584)..(584)
 <223> n is a, c, g, or t

<220>

30 <221> misc_feature
 <222> (589)..(589)
 <223> n is a, c, g, or t

<220>

35 <221> misc_feature
 <222> (598)..(598)
 <223> n is a, c, g, or t

<220>

40 <221> misc_feature
 <222> (605)..(605)
 <223> n is a, c, g, or t

<220>

45 <221> misc_feature
 <222> (612)..(612)

<223> n is a, c, g, or t

<220>

<221> misc_feature

5 <222> (618)..(618)

<223> n is a, c, g, or t

<220>

<221> misc_feature

10 <222> (633)..(633)

<223> n is a, c, g, or t

<220>

<221> misc_feature

15 <222> (647)..(647)

<223> n is a, c, g, or t

<220>

<221> misc_feature

20 <222> (653)..(654)

<223> n is a, c, g, or t

<220>

<221> misc_feature

25 <222> (664)..(664)

<223> n is a, c, g, or t

<220>

<221> misc_feature

30 <222> (679)..(679)

<223> n is a, c, g, or t

<220>

<221> misc_feature

35 <222> (689)..(689)

<223> n is a, c, g, or t

<220>

<221> misc_feature

40 <222> (695)..(695)

<223> n is a, c, g, or t

<220>

<221> misc_feature

45 <222> (698)..(698)

<223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (711)..(711)
 5 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (720)..(720)
 10 <223> n is a, c, g, or t

 <400> 52
 atatgacctg cgnncanacn cnctaanang ngactngtta aanacnttcc gtggaatnna 60
 15 ctcagactgc aaantgtnat nctgncnnan nntgnngact gtcngncng atttnnngcn 120
 tгнаatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc 180
 cantnnnctg gggneccacn nnnngngaact gagagtggat cttgtgtacc tgacnnacca 240
 20 gntntnnagn agggcgctca ctctgattgg tgcacatgg ttacacagtg tgtgcaaaga 300
 ccngnctatc tcactganga tgattgncag ngccnntggg tggcacnang ggnactgatg 360
 25 ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnata 420
 aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa 480
 ntcntncnt ataggcatga ttttnnncag tgcgtcagcc ttganaanga ancnnacttt 540
 30 tgntagatga nnnngtgc tc nccctgngg ctnacaaatt ccancacnt tggtggcngc 600
 agccnttaag ancactnttt ttgggttgcg cntttggatg aattacnaat agnntgtttt 660
 35 gttncaaggc ccttctgcna aatatgaana aaagngcnct tagctttttg ngggaactgn 720
 actggaaatt ttg 733

 40 <210> 53
 <211> 100
 <212> DNA
 <213> Human
 45 <220>

<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, or t

5 <220>
<221> misc_feature
<222> (15)..(15)
<223> n is a, c, g, or t

10 <220>
<221> misc_feature
<222> (37)..(37)
<223> n is a, c, g, or t

15 <220>
<221> misc_feature
<222> (42)..(42)
<223> n is a, c, g, or t

20 <220>
<221> misc_feature
<222> (44)..(45)
<223> n is a, c, g, or t

25 <220>
<221> misc_feature
<222> (50)..(50)
<223> n is a, c, g, or t

30 <220>
<221> misc_feature
<222> (57)..(59)
<223> n is a, c, g, or t

35 <220>
<221> misc_feature
<222> (70)..(70)
<223> n is a, c, g, or t

40 <220>
<221> misc_feature
<222> (74)..(74)
<223> n is a, c, g, or t

45 <220>
<221> misc_feature

<222> (80)..(80)

<223> n is a, c, g, or t

<400> 53

5 gatcagacaa gancntgggc cacagcggga cgagagntct cnanntgcn ggggagnnnc 60

caagtacgcn agcncctgaan ctaaagcaag caagaaaaag 100

10 <210> 54

<211> 515

<212> DNA

<213> Human

15 <400> 54

atatggcaag gataaccct atacttctgc ataatgaatt aactaaaata acttgcaagg 60

agagccaagc taaacccccg ataccgacga gtaccagaac aggtaagcac cccgtctatg 120

20 tagatatggg aagattatag gaggcgacaa ctaccgagcc tggatgtagc tgggtgtcaa 180

gaagagtctt agttcattta ttggcccag aaccctctaa tccccttgta atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagattac acccttaggg 300

25 gcctaatagc agccaccatt aagaaagcgt tcgtccaca cccactacct aaaaatcgaa 360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

30 ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atcctgcact 480

gacaattaac tgccccaata tctacaatcc aaccc 515

35 <210> 55

<211> 176

<212> DNA

<213> Human

40

<220>

<221> misc_feature

<222> (5)..(5)

<223> n is a, c, g, or t

45

<220>

<221> misc_feature
 <222> (32)..(32)
 <223> n is a, c, g, or t

5 <220>
 <221> misc_feature
 <222> (40)..(40)
 <223> n is a, c, g, or t

10 <220>
 <221> misc_feature
 <222> (60)..(60)
 <223> n is a, c, g, or t

15 <220>
 <221> misc_feature
 <222> (62)..(62)
 <223> n is a, c, g, or t

20 <220>
 <221> misc_feature
 <222> (76)..(76)
 <223> n is a, c, g, or t

25 <220>
 <221> misc_feature
 <222> (107)..(107)
 <223> n is a, c, g, or t

30 <220>
 <221> misc_feature
 <222> (155)..(155)
 <223> n is a, c, g, or t

35 <400> 55
 tgtnnaggat caaattataa tattgaaata anaacagctn acatttatat agcatgttn 60
 cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga 120
 40 agcctgcct cattagacca agacagcaag gttncctg gtcactagat gaaatt 176

<210> 56
 <211> 317
 45 <212> DNA
 <213> Human

<220>
 <221> misc_feature
 5 <222> (4)..(4)
 <223> n is a, c, g, or t

 <400> 56
 cagnagtgat gttgcaatat ctggaactag caaaggatac tgatgagaaa acgtggaatc 60
 10 atgtgggatg tgacctccta ggactcacct tgcacagctg ggtgcagcag ggataggtaa 120
 ggatttgggg ttagaggta caattgcctt ttatggta gagaaaggtc ctggggctgg 180
 15 agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240
 gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtgggtg atgctggcag 300
 acattgttat tgccatt 317
 20
 <210> 57
 <211> 209
 <212> DNA
 25 <213> Human

 <400> 57
 ctcatcaccc tgtggctact gtttctaca gattgccaaa actattcgag agaattaggct 60
 30 ctggactgga cactgtatac ccacatgcaa gatgaagttg gccccttaca tcctatacgc 120
 aggagaattg cgtcatttaa agcctgttga cgctttctc ccgcagacga atggaaagat 180
 taattgggag tgggggctga aacaattcg 209
 35
 <210> 58
 <211> 262
 <212> DNA
 40 <213> Human

 <400> 58
 aattttgctg ttacatgggtg gctcaactga gtccatact ttgaaggccg ggagttaatc 60
 45 acctggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120

caaatcaccg gcatggagat tgcgcctgtg gtcccaaat actcgggctg ggacacgatg 180
 agttgcttgg cccaaggaag gaggggttga ttgctgatca cactgggtccg cctgggtgac 240
 5 agagcgagac tccatctcta at 262

 <210> 59
 <211> 430
 10 <212> DNA
 <213> Human

 <400> 59
 gtcagtttat ttctgactag ggatatttcc ttccattta gaaaagaaga aaaaaaaaaa 60
 15 aaacctttat tgtcttacag gggggaacta gcgcggggct gaataaaacc ttggccctt 120
 cccgggggag gggatatccg ttataaacc ccaagggtat ttcttagca aaatacttaa 180
 20 aaccggccgg ggttttata caaactggga acccactttt gaaaaattt ggcttttga 240
 tctgggatgg gaatatgagt ttatatacat ttcatcttct tttgggcaa aggcccggtt 300
 aagtattccc ccccgggggg cctttacaaa aagggcggtt taaaagctt ttgggcccc 360
 25 ctagggaatt gtttaacac ctaaaaacc ctgcttcct taaagggcg ttctttaatt 420
 tgggggcggc 430
 30
 <210> 60
 <211> 350
 <212> DNA
 <213> Human
 35
 <400> 60
 aaacctctct aactatatat cacaataacc tgcgcataag atttacgctc cgatctttc 60
 atcctactag cttggaggat ttgaaccgat tatgaatacg caatactccc ggtcctcatg 120
 40 tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca 180
 tgattccgaa tcaccacag acagctcgat caccatactg atcaccaac atatatact 240
 45 tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat 300

taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga 350

<210> 61

5 <211> 515

<212> DNA

<213> Human

<400> 61

10 cacataaatt ctccataagt taattagtga tttaacatg atctcaatat aaacatagca 60

cactttcttt gagaattcaa catattgcaa gttaaaattt tcatagacta cacaagaaag 120

aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt 180

15 taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg 240

aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg 300

20 agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa 360

atgaagttga ataataaaaa tatattctac actagcacia attataaata aagcagtgat 420

ttaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata 480

25 gtcttctaaa atatatgact ttatgaattc tgact 515

<210> 62

30 <211> 611

<212> DNA

<213> Human

<400> 62

35 caagtacttt accaactaag ccaatcttgt cccagccag gcatttctat acaaagggcc 60

aagactttgg tttataaat aaggaggtat atataaatta tatatatttc tgagctgagt 120

aataatccac cagatacaag ttgcatcaa ctctgtgaa atatttttt tcctttttgt 180

40 tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa cttgacctgg 240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttatttaaa 300

45 tttgttaaaa ttgatataat gatataaaa acttcttttg ccagtgttgg tggcacacgc 360

ctttaatccc agcacttagg aggcagagggc aggggtggatt tctgaatttg agggcaggct 420

agtctacaga gcaagttcca ggctagccaa ggctatatat agaaactctg gcatgaaaaa 480

5 ccaaccaaac caaaccaaac caaacagac cagaccagac cagaccagac caaaccaaac 540

caaacagac taaaccaaac caaacagac cagaccagac cagaccagac cagaccagac 600

cagaccaaac t 611

10

<210> 63

<211> 291

<212> DNA

15 <213> Human

<400> 63

ccgagagatt ggccactgct taaactcatg cagctcctac tgttctcaa ttaatgcctt 60

20 taatgcgaat atacttcctc ttctttttgc atggtcttgc ccagcctctg caatactgat 120

gaacacatgc tgaagatcat ctaactcaat atggcgcata ttctatgtc ttgctgccc 180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag 240

25 aactactgca catatactct tactcggagg ctgaggcacg aggatcactt g 291

<210> 64

30 <211> 309

<212> DNA

<213> Human

<400> 64

35 gccagatgcc gtgttcttc gatgaactct ttacatcatt ggctattcag tggagtgtt 60

cattatcacc tctcactctc gcgtgttacc taactctccc tcgcagggga aatcactcca 120

tatatttcaa atgtcttgct aacagtgggt actttgctct atccttagct atacgtctcg 180

40 aggcacattg ttctctatg ccccgctacg ctttgccta gagctcggcg gtatctatat 240

cttaactgcc ctcttgatcc ttacgtgccg gagaagggtg aggcagaaat ttgtcaaat 300

45 ctgattaga 309

<210> 65
 <211> 278
 <212> DNA
 5 <213> Human

 <400> 65
 tagaatggaa tggagtcgaa tgtgatggaa tggacgcgaa tggaatggaa tggactcgaa 60
 10 tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa 120
 agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa 180
 tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa 240
 15 tgtaatggaa tagactcgaa tggaatggaa cgaaattt 278

 <210> 66
 20 <211> 142
 <212> DNA
 <213> Human

 <400> 66
 25 agttctcctt aggttaatta atggaatgca atcccaatga aaatgtcacc aaagttgtt 60
 ttttttaac tgtaggaggt ttataataat gctcatatgg aaaaataaaa catgtaaaaa 120
 atagctagta aactccccct gt 142
 30

 <210> 67
 <211> 286
 <212> DNA
 35 <213> Human

 <400> 67
 atatctgcca tcctcatcgg ccaatcgtgt tattttgatg acgaatgctt cggagattgg 60
 40 aaagatgata tcctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg 120
 attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180
 ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc 240
 45 caaagctcca ttctcttgaa agcagaagtg taatattact tcttag 286

<210> 68
 <211> 179
 5 <212> DNA
 <213> Human

 <400> 68
 atctactttt tattcttttg ataaatgttt atgaaatata aaatactgaa aattagaaag 60
 10 tagaagtcac tattttatta taaaacatgt ggattagata ttttcattta tgtgattaaa 120
 ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaatt 179
 15
 <210> 69
 <211> 390
 <212> DNA
 <213> Human
 20
 <220>
 <221> misc_feature
 <222> (356)..(356)
 25 <223> n is a, c, g, or t

 <400> 69
 cagataagac tattaagaca gataagagcc aaatcatgta gagcctcaga gggttttgat 60
 30 cttcagtcta agaacgtaaa tccatggaag aattttaagc aggggtgtgc cttgaccaca 120
 tttgaattc taaactgtct ctgggtgggt gtgggtgccca ccaagagcat gtgttcacgt 180
 agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatgggtg 240
 35 gtgacattgg agataagcag gtagacagat tctcagtgtg ttaggagaga aaaatcaata 300
 ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt 360
 40 ctcaatttct gcatgagaaa aaaggtggac 390

 <210> 70
 <211> 481
 45 <212> DNA
 <213> Human

<220>
 <221> misc_feature
 5 <222> (26)..(26)
 <223> n is a, c, g, or t

 <400> 70
 atgatgaaat gatgagatga aatgcntgag atgagatgtg atgaaatgat gatatgaaat 60
 10 gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga 120
 tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180
 15 agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240
 gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat 300
 gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360
 20 tgagatgaca tgaaataatg aatgaaatt gaaatgagat aagatacgag ctgagatgca 420
 atgagatgaa atgatgagat gaaatgaaat agtgaaatga aattgaaata aaatcgaaat 480
 25 g 481

<210> 71
 <211> 125
 30 <212> DNA
 <213> Human

<220>
 35 <221> misc_feature
 <222> (5)..(5)
 <223> n is a, c, g, or t

<220>
 40 <221> misc_feature
 <222> (19)..(19)
 <223> n is a, c, g, or t

<220>
 45 <221> misc_feature
 <222> (29)..(29)

<223> n is a, c, g, or t
 <220>
 <221> misc_feature
 5 <222> (38)..(38)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 10 <222> (42)..(42)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 15 <222> (45)..(45)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 20 <222> (49)..(49)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 25 <222> (61)..(61)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 30 <222> (77)..(77)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 35 <222> (79)..(79)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 40 <222> (88)..(88)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 45 <222> (90)..(90)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (100)..(100)
 5 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (110)..(110)
 10 <223> n is a, c, g, or t

 <400> 71
 cggtingcaat tgggggccnc atacgcgcng acgagtantg gncangctnc ttgactacac 60
 15 ngacgcgccg tacaggntna attatggan cttacatggn aaaggggcan ctcaatgtcc 120

 cacag 125

 20 <210> 72
 <211> 473
 <212> DNA
 <213> Human

 25
 <220>
 <221> misc_feature
 <222> (151)..(151)
 <223> n is a, c, g, or t
 30
 <400> 72
 gaaatgaaat aatgaaatga gatgaaataa cgaaataaaa ttgaaatgag atgagaggaa 60
 atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg 120
 35 aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga 180
 cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa 240
 40 tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa 300
 ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga 360
 catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420
 45 tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

<210> 73
 <211> 500
 5 <212> DNA
 <213> Human

<220>
 10 <221> misc_feature
 <222> (7)..(7)
 <223> n is a, c, g, or t

<220>
 15 <221> misc_feature
 <222> (16)..(16)
 <223> n is a, c, g, or t

<220>
 20 <221> misc_feature
 <222> (233)..(233)
 <223> n is a, c, g, or t

<400> 73
 25 aatgagnatg aaaagnatga aatgatgaga tgaaatgaaa tgatgagatg aatgaggtg 60
 aatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaataa atgaaataat 120
 gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa 180
 30 tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga 240
 gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga 300
 35 tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360
 aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat 420
 aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg 480
 40 atgagatgaa atgatgaaat 500

<210> 74
 45 <211> 299
 <212> DNA

<213> Human

<220>

5 <221> misc_feature

<222> (31)..(32)

<223> n is a, c, g, or t

<220>

10 <221> misc_feature

<222> (57)..(57)

<223> n is a, c, g, or t

<400> 74

15 ggaaatcctg aagtggaaat gatgagctga nntgcaatga gttgaaatga gatgaancga 60

tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180

20 tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240

aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg 299

25

<210> 75

<211> 155

<212> DNA

<213> Human

30

<400> 75

agtgaatga aattgaaata aaatcgaaat gagatgagat gaaatgatga gatgatgaaa 60

taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120

35

tgagatgaca tgaaataatg aaacgaaatt gaaat 155

<210> 76

40 <211> 367

<212> DNA

<213> Human

45 <220>

<221> misc_feature

<222> (11)..(11)
 <223> n is a, c, g, or t

 <220>
 5 <221> misc_feature
 <222> (35)..(35)
 <223> n is a, c, g, or t

 <220>
 10 <221> misc_feature
 <222> (37)..(38)
 <223> n is a, c, g, or t

 <220>
 15 <221> misc_feature
 <222> (43)..(43)
 <223> n is a, c, g, or t

 <220>
 20 <221> misc_feature
 <222> (56)..(56)
 <223> n is a, c, g, or t

 <220>
 25 <221> misc_feature
 <222> (67)..(67)
 <223> n is a, c, g, or t

 <220>
 30 <221> misc_feature
 <222> (71)..(71)
 <223> n is a, c, g, or t

 <220>
 35 <221> misc_feature
 <222> (75)..(75)
 <223> n is a, c, g, or t

 <400> 76
 40 atagcaaaag ngggtaaacc cctgagttt gcganannag tantcttgta ggggcnaact 60

 ctactnaga ngaantcctc gcaaaatcct tgaatcaccg cttcagtga gtgatatcac 120

 cgccatgaaa ttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt 180
 45 tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300

aaatatgagg ggtggcaagg tttgcctgt tacattctca aatggaagca aattagatat 360

5

gtcattg 367

<210> 77

10 <211> 257

<212> DNA

<213> Human

15 <220>

<221> misc_feature

<222> (6)..(6)

<223> n is a, c, g, or t

20 <220>

<221> misc_feature

<222> (11)..(11)

<223> n is a, c, g, or t

25 <400> 77

actagnacag naattttagc taagtggagt ttgagttaag tggagatgtg agaccatctc 60

atagaaatca ttatttctgt gggatggata attgggccaa attgtaaaat attttaacta 120

30 tcagtgtttg gggtttattt ttaaaagaat aggggtgccac cagatgttct ttagtggagg 180

agaaatgagg ccagagtgcac tgcctagaaa attaagttgg taaattaatc actttttct 240

aggtcctttc ttagtct 257

35

<210> 78

<211> 373

<212> DNA

40 <213> Human

<220>

<221> misc_feature

45 <222> (11)..(11)

<223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (20)..(20)
 5 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (24)..(24)
 10 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (31)..(31)
 15 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (38)..(38)
 20 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (53)..(53)
 25 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (61)..(62)
 30 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (66)..(66)
 35 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (83)..(84)
 40 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (92)..(92)
 45 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (109)..(109)
 <223> n is a, c, g, or t
 5
 <220>
 <221> misc_feature
 <222> (115)..(115)
 <223> n is a, c, g, or t
 10
 <220>
 <221> misc_feature
 <222> (146)..(146)
 <223> n is a, c, g, or t
 15
 <220>
 <221> misc_feature
 <222> (153)..(153)
 <223> n is a, c, g, or t
 20
 <220>
 <221> misc_feature
 <222> (166)..(166)
 <223> n is a, c, g, or t
 25
 <400> 78
 ctttaaaaac ntgtagacn aacnttaaaa nttaccntt ttctgaact gantcctggg 60
 nntaantaaa aagggtgaag aannttactt cnccttggtcc taataaacnt tttentcagt 120
 30 tattacaaa atattggac cattantaaa gantagggcc aaccnaatt ttcttgaaa 180
 ttccgtaa atagccgta aatgtttta cccatttcat attggatacc ttaaattata 240
 35 ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc ttttcctc 300
 taccattatt gtcactttat gtttgaacc ccctttaccc ttcttaaag gaaaaaaagg 360
 gcccggggtt ttt 373
 40
 <210> 79
 <211> 128
 <212> DNA
 45 <213> Human

<220>
 <221> misc_feature
 <222> (10)..(10)
 5 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (20)..(20)
 10 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (29)..(30)
 15 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (35)..(35)
 20 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (49)..(49)
 25 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (92)..(92)
 30 <223> n is a, c, g, or t

 <400> 79
 tcctagtaan ctggtttacn ctgaaagann aagangcctc ccctgttcnc tgaaatacca 60

 35 ccctgatgtt caagtattta agaccctatg cnaatatttt ttaccttttc taataaacca 120

 tgtttggt 128

 40 <210> 80
 <211> 213
 <212> DNA
 <213> Human

 45 <220>

<221> misc_feature
 <222> (9)..(9)
 <223> n is a, c, g, or t

5 <220>
 <221> misc_feature
 <222> (88)..(88)
 <223> n is a, c, g, or t

10 <220>
 <221> misc_feature
 <222> (98)..(98)
 <223> n is a, c, g, or t

15 <220>
 <221> misc_feature
 <222> (105)..(105)
 <223> n is a, c, g, or t

20 <220>
 <221> misc_feature
 <222> (107)..(107)
 <223> n is a, c, g, or t

25 <220>
 <221> misc_feature
 <222> (127)..(127)
 <223> n is a, c, g, or t

30 <220>
 <221> misc_feature
 <222> (142)..(142)
 <223> n is a, c, g, or t

35 <220>
 <221> misc_feature
 <222> (147)..(147)
 <223> n is a, c, g, or t

40 <220>
 <221> misc_feature
 <222> (161)..(161)
 <223> n is a, c, g, or t

45 <220>
 <221> misc_feature

<222> (166)..(167)
 <223> n is a, c, g, or t

 <220>
 5 <221> misc_feature
 <222> (171)..(171)
 <223> n is a, c, g, or t

 <220>
 10 <221> misc_feature
 <222> (180)..(180)
 <223> n is a, c, g, or t

 <220>
 15 <221> misc_feature
 <222> (196)..(196)
 <223> n is a, c, g, or t

 <220>
 20 <221> misc_feature
 <222> (206)..(206)
 <223> n is a, c, g, or t

 <400> 80
 25 cccattggna cagaccccca aaatgggtac atttttagg aaaccaggac cttccaagg 60

 ggccaggcct tccttttaa aaaaaatnac cgttttngg gggangnaac ctttaaagg 120

 ggaaaaanaa tccttttaa anggaantcc aagggaagga ncctgnncaa nacttcccn 180
 30 ccaataaaaa aaacnnttt ggaaangggg aaa 213

 <210> 81
 35 <211> 443
 <212> DNA
 <213> Human

 40 <220>
 <221> misc_feature
 <222> (22)..(22)
 <223> n is a, c, g, or t

 45 <220>
 <221> misc_feature

<222> (33)..(34)

<223> n is a, c, g, or t

<220>

5 <221> misc_feature

<222> (39)..(39)

<223> n is a, c, g, or t

<400> 81

10 gaaatgagat gaaaccatga gnatgaaatg aannaatgnc atgcaaatga tgagatgaaa 60

tgatgaaatg agatgagatg agaagaaatg acttgatgag atgagataaa atgatgaaat 120

gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

15 aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat 240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa 300

20 tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa 420

atgaaatgaa atgagattaa atg 443

25

<210> 82

<211> 442

<212> DNA

30 <213> Human

<220>

<221> misc_feature

35 <222> (13)..(13)

<223> n is a, c, g, or t

<220>

<221> misc_feature

40 <222> (16)..(16)

<223> n is a, c, g, or t

<220>

<221> misc_feature

45 <222> (33)..(33)

<223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (46)..(47)
 5 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (78)..(78)
 10 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (82)..(83)
 15 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (121)..(121)
 20 <223> n is a, c, g, or t

 <400> 82
 tgccccggga acntcnaact gccatcctg ganttttggg ggggannctt taaaaaacct 60
 25 gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata 120
 ntagggacct gctctataag cccatcataa ttattatga agttataaca agtaaaacag 180
 taagggtattt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata 240
 30 taacacagggg aaatgaggga caatatatgg ttctgggata attatttata tggggaaaat 300
 aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg 360
 35 catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg 420
 taggaaagca ttctttttt tt 442

 40 <210> 83
 <211> 135
 <212> DNA
 <213> Human
 45 <220>

<221> misc_feature .
 <222> (8)..(8)
 <223> n is a, c, g, or t

5 <220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n is a, c, g, or t

10 <400> 83
 gtctaacta aaaagtaaag aaagtaaagt aaaggnttga aggaaggaag gaaggaagga 60
 agggaggaaa agaaagaaag gaaggaagga aggaaaagaa agaaagaaag gaaggaagga 120
 15 aggaaggaag gaagg 135

<210> 84
 <211> 346
 20 <212> DNA
 <213> Human

<220>
 25 <221> misc_feature
 <222> (30)..(30)
 <223> n is a, c, g, or t

<400> 84
 30 ggaggaggaa gaggatgag ttctctaata acttggttgg attagcctta gaggatcgg 60
 gaggatcctt ctgaagtgc ccctactatc aagggttcat ggaaatcta ggcaaggcag 120
 aacttcctca gaaggacaag agacaaagaa gtgggggagg cctcctatc catagctgag 180
 35 aggggttatt cttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240
 aacccagct agacagaact tttagattt tggggggtt aaaaggcctc aagcaaattc 300
 40 taaaactttc ttgaacccc ctggcatagg ctcagtttcc ctgact 346

<210> 85
 <211> 100
 45 <212> DNA
 <213> Human

<400> 85

acaaaaagcc cctttaaact tgggcccgcg cgaggctgtt tcgactgggc cgagacttcc 60

5 gaaaagaaaa tggttttttt tgccgaaatc aaccgggtaa 100

<210> 86

<211> 201

10 <212> DNA

<213> Human

<400> 86

ttcataacat cgtcattttg ggttatgcga aatacaaatt taaatctttg tgaaatgaaa 60

15 gaaaagagga agaaacgctt tttaggaggt aaggattaaa gtaaaaatta ttttgacata 120

attacctctt tttgtgacca ctcttaaagg ccaggaacat atttgagagaa gcctagtgt 180

20 atgtaacagt gtgggggttc a 201

<210> 87

<211> 531

25 <212> DNA

<213> Human

<400> 87

tatagcgggc gttataaaca taccacttcc cgttacaacg gatttcaagg ttaggggtgc 60

30 aaccagaac gaacgcgta agtgcgcgtt atcttcttag gatagagtcg gtgacgggaa 120

tcttttacc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180

35 ttaaccatcg caatgccga ccgagtttaa ggaccactcc ccaccttct cattagtaa 240

ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggcgcgcgcc 300

gtcgagtccc tcttctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga 360

40 ttcttctaag cgtagcgcgt ctactccaat gtttcgta atccagccc aactaacgcc 420

gcggaggagt cgtaccgtct actctatcc cgtcggctcg gatttactac aggagctaag 480

45 aaaacaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a 531

<210> 88
 <211> 530
 <212> DNA
 5 <213> Human

 <400> 88
 aatctcgatc gcaaacatac ggcaactctcc ctcttgccgc gggtttcgtc cagcgcttcc 60
 10 cattcgggtcc agtgcctcgc cctattagcc cttagccca ccgtttctaa aactcccaga 120
 acagccaaac cgggtccgcc aaggcctccg tcgtttata atatattccg ttacgtata 180
 aggaacgaac ccccttcat taccacgggc ccgcgtccgc ctcttctcc attcgcaaca 240
 15 gttctattcc ttacagctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300
 gatagcaaag attaccagc ttctattcct cgtccagag ccgagtaaatt cgaagtttat 360
 20 agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa 420
 tataaactta atgtccctt tattctccg gacgccctt ttaaccactt ctctctatct 480
 ttgcctaaca agcattgac ggcgtttgc cgcgcgggcc catctcgcgt 530
 25

 <210> 89
 <211> 332
 <212> DNA
 30 <213> Human

 <220>
 <221> misc_feature
 35 <222> (37)..(37)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 40 <222> (47)..(47)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 45 <222> (108)..(108)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (112)..(112)
 5 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (129)..(129)
 10 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (134)..(134)
 15 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (152)..(152)
 20 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (168)..(168)
 25 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (196)..(196)
 30 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (239)..(239)
 35 <223> n is a, c, g, or t

 <400> 89
 ccatttatgg gccgggggata taccacatg gtacagnaca ttacatnttt atggcaccat 60

 40 ttccaccggc ctggttttgg tttttccata attaattaac caggggggncc anttaaaaaa 120

 aattaaggna aggnntaaaa aatttaacca angggggggtt taaagggnntt tttttttta 180

 aaaaaaaagg ttaaancccc cccctttttt ttgggttggg gtgggaaaat tttgggaanc 240
 45 cttaaccccc ggggttttgg gtttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa 300

ggaccggttt ccattttaat gggatttggg aa

332

5 <210> 90
<211> 185
<212> DNA
<213> Human

10 <400> 90
actgctataa tgcaggggaa catgttctca gggtcacct gaggggtgt gtcattgggc 60

cgttggtaac tattaaaaca taagttaat cgttatata aattttaaa tcaaaaaaa 120

15 taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaatt 180

ctcct 185

20 <210> 91
<211> 365
<212> DNA
<213> Human

25 <220>
<221> misc_feature
<222> (326)..(326)
<223> n is a, c, g, or t

30 <220>
<221> misc_feature
<222> (338)..(339)
<223> n is a, c, g, or t

35 <220>
<221> misc_feature
<222> (344)..(344)
<223> n is a, c, g, or t

40 <400> 91
ccagagagcc acaaatgacc aaaatatttt gagatgaaca tgctcgtaga aggtagctga 60

ctagggggta ctgaaaatg ctgaccagg ataactccta agtgtatatc ctggcagac 120

45 tcgttatgct ttccaatcct gcttgcaata taagacacaa agtcagaata aagctcaaga 180

aaacagaacg tgcaggccat caagcgcaga gcctgctcat tggacaaccg caaagagtag 240
 taagtgtctgc cgctattcac acttagaaaa ggagaaccac ggggaaaaac caaattaatg 300
 5 gggctgcttt ttgtactct ggcatnagag aattgtgnng aaantttaac ttttgaagc 360
 ttgta 365
 10
 <210> 92
 <211> 113
 <212> DNA
 <213> Human
 15
 <220>
 <221> misc_feature
 <222> (32)..(32)
 20 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (34)..(34)
 25 <223> n is a, c, g, or t
 <400> 92
 acttgacctt atggatgatg ctgcggagtg cntngtaagt gttcatgat attcctaag 60
 30 aagtcaggat agtagttttc attccttaga tggtaacaagt gttgagacaa atg 113
 <210> 93
 <211> 210
 35 <212> DNA
 <213> Human
 <400> 93
 gttttaggga aattgccag ttttatgttt taatatTTTT ggaaggaaaa ctgaaaggta 60
 40 atgaaaatgt tactgttgga ttaaaaaaca aattaagtcc aaatagtgat taggcaagtt 120
 ggtgaggtag ggggttgctg caagagcgga agttgaaaga tcttgaaaa attaaagaaa 180
 45 cttcatagaa ccccatctct acaccaaaaa 210

<210> 94
 <211> 506
 <212> DNA
 5 <213> Human

<220>
 <221> misc_feature
 10 <222> (5)..(5)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 15 <222> (25)..(25)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 20 <222> (38)..(39)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 25 <222> (44)..(44)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 30 <222> (46)..(46)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 35 <222> (59)..(59)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 40 <222> (66)..(66)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 45 <222> (70)..(70)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (74)..(74)
 5 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (80)..(80)
 10 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (82)..(84)
 15 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (86)..(86)
 20 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (90)..(92)
 25 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (112)..(113)
 30 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (117)..(117)
 35 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (126)..(126)
 40 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (129)..(129)
 45 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (133)..(136)
 <223> n is a, c, g, or t
 5
 <220>
 <221> misc_feature
 <222> (152)..(152)
 <223> n is a, c, g, or t
 10
 <220>
 <221> misc_feature
 <222> (156)..(157)
 <223> n is a, c, g, or t
 15
 <220>
 <221> misc_feature
 <222> (162)..(162)
 <223> n is a, c, g, or t
 20
 <220>
 <221> misc_feature
 <222> (164)..(165)
 <223> n is a, c, g, or t
 25
 <220>
 <221> misc_feature
 <222> (174)..(174)
 <223> n is a, c, g, or t
 30
 <220>
 <221> misc_feature
 <222> (178)..(178)
 <223> n is a, c, g, or t
 35
 <220>
 <221> misc_feature
 <222> (181)..(181)
 <223> n is a, c, g, or t
 40
 <220>
 <221> misc_feature
 <222> (185)..(187)
 <223> n is a, c, g, or t
 45
 <220>

<221> misc_feature
<222> (190)..(191)
<223> n is a, c, g, or t

5 <220>
<221> misc_feature
<222> (194)..(194)
<223> n is a, c, g, or t

10 <220>
<221> misc_feature
<222> (206)..(206)
<223> n is a, c, g, or t

15 <220>
<221> misc_feature
<222> (227)..(227)
<223> n is a, c, g, or t

20 <220>
<221> misc_feature
<222> (231)..(231)
<223> n is a, c, g, or t

25 <220>
<221> misc_feature
<222> (235)..(235)
<223> n is a, c, g, or t

30 <220>
<221> misc_feature
<222> (244)..(244)
<223> n is a, c, g, or t

35 <220>
<221> misc_feature
<222> (247)..(247)
<223> n is a, c, g, or t

40 <220>
<221> misc_feature
<222> (251)..(251)
<223> n is a, c, g, or t

45 <220>
<221> misc_feature

<222> (255)..(255)
 <223> n is a, c, g, or t

<220>

5 <221> misc_feature
 <222> (258)..(258)
 <223> n is a, c, g, or t

<220>

10 <221> misc_feature
 <222> (260)..(261)
 <223> n is a, c, g, or t

<220>

15 <221> misc_feature
 <222> (263)..(263)
 <223> n is a, c, g, or t

<220>

20 <221> misc_feature
 <222> (270)..(270)
 <223> n is a, c, g, or t

<220>

25 <221> misc_feature
 <222> (273)..(276)
 <223> n is a, c, g, or t

<220>

30 <221> misc_feature
 <222> (285)..(285)
 <223> n is a, c, g, or t

<220>

35 <221> misc_feature
 <222> (287)..(287)
 <223> n is a, c, g, or t

<220>

40 <221> misc_feature
 <222> (291)..(292)
 <223> n is a, c, g, or t

<220>

45 <221> misc_feature
 <222> (302)..(302)

<223> n is a, c, g, or t

<220>

<221> misc_feature

5 <222> (305)..(306)

<223> n is a, c, g, or t

<220>

<221> misc_feature

10 <222> (311)..(311)

<223> n is a, c, g, or t

<220>

<221> misc_feature

15 <222> (318)..(319)

<223> n is a, c, g, or t

<220>

<221> misc_feature

20 <222> (321)..(321)

<223> n is a, c, g, or t

<220>

<221> misc_feature

25 <222> (327)..(329)

<223> n is a, c, g, or t

<220>

<221> misc_feature

30 <222> (333)..(333)

<223> n is a, c, g, or t

<220>

<221> misc_feature

35 <222> (348)..(349)

<223> n is a, c, g, or t

<220>

<221> misc_feature

40 <222> (352)..(352)

<223> n is a, c, g, or t

<220>

<221> misc_feature

45 <222> (357)..(357)

<223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (363)..(363)
 5 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (366)..(367)
 10 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (369)..(369)
 15 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (371)..(371)
 20 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (376)..(377)
 25 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (385)..(385)
 30 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (390)..(390)
 35 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (398)..(398)
 40 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (401)..(401)
 45 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (405)..(405)
 <223> n is a, c, g, or t
 5
 <220>
 <221> misc_feature
 <222> (420)..(420)
 <223> n is a, c, g, or t
 10
 <220>
 <221> misc_feature
 <222> (429)..(429)
 <223> n is a, c, g, or t
 15
 <220>
 <221> misc_feature
 <222> (437)..(437)
 <223> n is a, c, g, or t
 20
 <220>
 <221> misc_feature
 <222> (440)..(440)
 <223> n is a, c, g, or t
 25
 <220>
 <221> misc_feature
 <222> (442)..(443)
 <223> n is a, c, g, or t
 30
 <220>
 <221> misc_feature
 <222> (453)..(453)
 <223> n is a, c, g, or t
 35
 <220>
 <221> misc_feature
 <222> (455)..(456)
 <223> n is a, c, g, or t
 40
 <220>
 <221> misc_feature
 <222> (473)..(474)
 <223> n is a, c, g, or t
 45
 <220>

<221> misc_feature
 <222> (477)..(477)
 <223> n is a, c, g, or t

5 <220>
 <221> misc_feature
 <222> (481)..(481)
 <223> n is a, c, g, or t

10 <220>
 <221> misc_feature
 <222> (487)..(488)
 <223> n is a, c, g, or t

15 <220>
 <221> misc_feature
 <222> (495)..(497)
 <223> n is a, c, g, or t

20 <220>
 <221> misc_feature
 <222> (500)..(500)
 <223> n is a, c, g, or t

25 <220>
 <221> misc_feature
 <222> (502)..(502)
 <223> n is a, c, g, or t

30 <220>
 <221> misc_feature
 <222> (506)..(506)
 <223> n is a, c, g, or t

35 <400> 94
 ttgngggggg ggcgagatcc tactngagac ccttgatnnt gggnanggac cgaagatcna 60

ttaganaccn atnggatggn cnnncnaaan nnttaaagtg agagtccatc tnngaanaaa 120

40 atgggnaant ttnnnngggg ggggggaaaa ancccnnggg tnannggggg ccnngggntt 180

naaannggn nctngggggg ggaaantttt ggcccccccc cgggggnttt ncctnaaaaa 240

aaancnttt naaanacngn nanaatttn ccnnncggg gagngngga nntttttt 300

45 tnaannagcc nttttgna naaaaanntt ggncccccc ctattccnng gnttttngga 360

ccntnnanc ntgggnnttt ttagnccctn aaaaaaangc naatnttaag gtaaaaattn 420

ggggggggng ggggggnggn gnntttttt ttntnnggag gggttttt ccnncgnggg 480

5

ngaaagnntg gggcnncctn cngccn 506

<210> 95

10 <211> 400

<212> DNA

<213> Human

15 <220>

<221> misc_feature

<222> (11)..(11)

<223> n is a, c, g, or t

20 <220>

<221> misc_feature

<222> (24)..(24)

<223> n is a, c, g, or t

25 <220>

<221> misc_feature

<222> (40)..(40)

<223> n is a, c, g, or t

30 <220>

<221> misc_feature

<222> (48)..(48)

<223> n is a, c, g, or t

35 <220>

<221> misc_feature

<222> (51)..(51)

<223> n is a, c, g, or t

40 <220>

<221> misc_feature

<222> (71)..(71)

<223> n is a, c, g, or t

45 <220>

<221> misc_feature

<222> (80)..(80)
<223> n is a, c, g, or t

<220>

5 <221> misc_feature
<222> (83)..(83)
<223> n is a, c, g, or t

<220>

10 <221> misc_feature
<222> (91)..(91)
<223> n is a, c, g, or t

<220>

15 <221> misc_feature
<222> (95)..(95)
<223> n is a, c, g, or t

<220>

20 <221> misc_feature
<222> (99)..(99)
<223> n is a, c, g, or t

<220>

25 <221> misc_feature
<222> (111)..(111)
<223> n is a, c, g, or t

<220>

30 <221> misc_feature
<222> (115)..(116)
<223> n is a, c, g, or t

<220>

35 <221> misc_feature
<222> (118)..(118)
<223> n is a, c, g, or t

<220>

40 <221> misc_feature
<222> (121)..(121)
<223> n is a, c, g, or t

<220>

45 <221> misc_feature
<222> (123)..(124)

<223> n is a, c, g, or t

<220>

<221> misc_feature

5 <222> (126)..(126)

<223> n is a, c, g, or t

<220>

<221> misc_feature

10 <222> (129)..(129)

<223> n is a, c, g, or t

<220>

<221> misc_feature

15 <222> (131)..(131)

<223> n is a, c, g, or t

<220>

<221> misc_feature

20 <222> (133)..(133)

<223> n is a, c, g, or t

<220>

<221> misc_feature

25 <222> (135)..(135)

<223> n is a, c, g, or t

<220>

<221> misc_feature

30 <222> (148)..(148)

<223> n is a, c, g, or t

<220>

<221> misc_feature

35 <222> (153)..(153)

<223> n is a, c, g, or t

<220>

<221> misc_feature

40 <222> (170)..(170)

<223> n is a, c, g, or t

<220>

<221> misc_feature

45 <222> (173)..(173)

<223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (175)..(175)
 5 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (177)..(177)
 10 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (192)..(192)
 15 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (195)..(196)
 20 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (198)..(198)
 25 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (200)..(201)
 30 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (211)..(212)
 35 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (219)..(219)
 40 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (222)..(223)
 45 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (226)..(226)
 <223> n is a, c, g, or t

5

<220>
 <221> misc_feature
 <222> (231)..(231)
 <223> n is a, c, g, or t

10

<220>
 <221> misc_feature
 <222> (240)..(240)
 <223> n is a, c, g, or t

15

<220>
 <221> misc_feature
 <222> (243)..(244)
 <223> n is a, c, g, or t

20

<220>
 <221> misc_feature
 <222> (249)..(249)
 <223> n is a, c, g, or t

25

<220>
 <221> misc_feature
 <222> (255)..(255)
 <223> n is a, c, g, or t

30

<220>
 <221> misc_feature
 <222> (269)..(269)
 <223> n is a, c, g, or t

35

<220>
 <221> misc_feature
 <222> (280)..(280)
 <223> n is a, c, g, or t

40

<220>
 <221> misc_feature
 <222> (283)..(283)
 <223> n is a, c, g, or t

45

<220>

<221> misc_feature
 <222> (289)..(289)
 <223> n is a, c, g, or t

5 <220>
 <221> misc_feature
 <222> (293)..(293)
 <223> n is a, c, g, or t

10 <220>
 <221> misc_feature
 <222> (311)..(311)
 <223> n is a, c, g, or t

15 <220>
 <221> misc_feature
 <222> (324)..(324)
 <223> n is a, c, g, or t

20 <220>
 <221> misc_feature
 <222> (326)..(326)
 <223> n is a, c, g, or t

25 <220>
 <221> misc_feature
 <222> (341)..(341)
 <223> n is a, c, g, or t

30 <220>
 <221> misc_feature
 <222> (348)..(348)
 <223> n is a, c, g, or t

35 <220>
 <221> misc_feature
 <222> (350)..(350)
 <223> n is a, c, g, or t

40 <220>
 <221> misc_feature
 <222> (354)..(355)
 <223> n is a, c, g, or t

45 <220>
 <221> misc_feature

<222> (367)..(367)
 <223> n is a, c, g, or t

 <220>
 5 <221> misc_feature
 <222> (383)..(384)
 <223> n is a, c, g, or t

 <220>
 10 <221> misc_feature
 <222> (391)..(391)
 <223> n is a, c, g, or t

 <220>
 15 <221> misc_feature
 <222> (398)..(398)
 <223> n is a, c, g, or t

 <220>
 20 <221> misc_feature
 <222> (400)..(400)
 <223> n is a, c, g, or t

 <400> 95
 25 catgaaggaa naagcctgta ctanctgccg gtatccatgn taatctgngg ngatgtcagc 60

 agaccagct nagcagatan ctncatttct ntcnaagnc ctttggctctg naggngnca 120

 ntnnancctnc ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg 180
 30 ttttctctta tntgngngcn naacatctgc nngctctgnt annaanaatt ncataccgcn 240

 canngtctnt gacgntgtga tgcatacgt tgggcagagn gancaatang tgngcatatg 300

 35 cgtgccttac ncaaggatac ggangngctt gaaattgatg ngaccaanan tttnngtacg 360

 gtaagtnacc caaccacttc tgnnttcaact ntaagagncn 400

 40 <210> 96
 <211> 800
 <212> DNA
 <213> Human

 45 <220>

<221> misc_feature
<222> (171)..(171)
<223> n is a, c, g, or t

5 <220>
<221> misc_feature
<222> (622)..(622)
<223> n is a, c, g, or t

10 <220>
<221> misc_feature
<222> (628)..(628)
<223> n is a, c, g, or t

15 <220>
<221> misc_feature
<222> (642)..(642)
<223> n is a, c, g, or t

20 <220>
<221> misc_feature
<222> (661)..(661)
<223> n is a, c, g, or t

25 <220>
<221> misc_feature
<222> (668)..(668)
<223> n is a, c, g, or t

30 <220>
<221> misc_feature
<222> (694)..(694)
<223> n is a, c, g, or t

35 <220>
<221> misc_feature
<222> (709)..(710)
<223> n is a, c, g, or t

40 <220>
<221> misc_feature
<222> (735)..(735)
<223> n is a, c, g, or t

45 <220>
<221> misc_feature

<222> (751)..(752)
<223> n is a, c, g, or t

<220>

5 <221> misc_feature
<222> (763)..(763)
<223> n is a, c, g, or t

<220>

10 <221> misc_feature
<222> (778)..(778)
<223> n is a, c, g, or t

<220>

15 <221> misc_feature
<222> (782)..(782)
<223> n is a, c, g, or t

<220>

20 <221> misc_feature
<222> (786)..(786)
<223> n is a, c, g, or t

<220>

25 <221> misc_feature
<222> (788)..(788)
<223> n is a, c, g, or t

<220>

30 <221> misc_feature
<222> (798)..(798)
<223> n is a, c, g, or t

<400> 96

35 gagatgaatg atgaaatgat gagatgagat gatgaaatga aatggtgaga tgaactgatg 60

aaatgaaatg aaataatgaa atgaaattga aataaaattg aaatgagatg agatgaaatg 120

atgagatgat gaaataaaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa 180

40 tgatgagatg agatgacatg aaataaatga aataatgaaa tcgaaatgag atgagaagat 240

acgagatgag atgaaatgat gagatgaaat gatgaaatga gataagatga aaagagttga 300

45 tgagatgatg agatgaaatg agatgaaaag agatgaaatg agatgaaatg aaatgatgag 360

atgaaatgag gtgaaatgaa attagatgaa acgtaatgag atgaaatgac ataatgaaat 420
gaaaaaatga aatgaaataa tgaaatgagg tgaaattaaa tgagatgatg aaattaaatg 480
5 atgaaatgaa ataatgaaat ggaaatgaaa tggaaatgat gagatgaatg atgagatgaa 540
atgatgagat gagatgtatt gatgagagga aatgatgaga tgtaatgaaa tgagatgaaa 600
tgaaatgagat gaaatggaat antggaangg aaattgattg gngatttgag atgaaatgag 660
10 ntaaatgnga tgaattaatg atgagatgaa atgntgaatg ccgggggtgnn tgagatgaat 720
tgagttgaac cctgngatga atgaagattg nntgaatggt ggntgaatgt tgaatggntg 780
15 gntggnanaa tgcctgtngg 800

<210> 97
<211> 334
20 <212> DNA
<213> Human

<400> 97
gatgaattga aatgaaatga aataatgaaa taatgaaatg agatgaaatg aaaagaaatg 60
25 atgaaatgat attgaaatga aattgaaaga tgagatgatg agatgaaatg gtgaaatgtt 120
gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180
30 tgaaatgaaa tgagattaaa tgatgagatg aaaactgatg aaaacttaaa tgatgaaata 240
atgaaatgaa aatgaaatgg aaatgatgag atgagaagaa atgatgagat gagatgagat 300
aaaatgagat gaaatgatga gatgaaatga tgag 334
35

<210> 98
<211> 100
<212> DNA
40 <213> Human

<220>
<221> misc_feature
45 <222> (17)..(17)
<223> n is a, c, g, or t

<400> 98
ttcaggccgt ctgcttntac atatactatc gagaatggtg ctgtgcactc ataacaccgt 60

5 tgcttggtag acgcttttga acccttcagc gctgaaagta 100

<210> 99
<211> 500
10 <212> DNA
<213> Human

<220>
15 <221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, or t

<220>
20 <221> misc_feature
<222> (361)..(361)
<223> n is a, c, g, or t

<400> 99
25 cccggganntt cggcccttat ggcccgggga aatgatgaga tgaaatgatg aaatgagata 60
agatgaaaag agttgatgag atgatgagat gaaatgagat gaaaagagat gaaatgagat 120
gaaatgaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga 180
30 aatgacctaa tgaaatgaaa aaatgaaatg aaataatgaa atgaggtgaa attaaatgag 240
atgatgaaat taaatgatga aatgaaataa tgaaatggaa atgaaatgga aatgatgaga 300
35 tgaatgatga gatgaaatga tgagatgaga tctaataatg agaggagatg atgagatgaa 360
ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggtgaaa 420
tgaaattaga tgaaacgtaa tgagatgaaa tgacataatg aaatgaaaaa atgaaatgaa 480
40 ataatgaaat gaggtgaaat 500

<210> 100
45 <211> 397
<212> DNA

<213> Human

<220>

5 <221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, or t

<220>

10 <221> misc_feature
<222> (39)..(39)
<223> n is a, c, g, or t

<220>

15 <221> misc_feature
<222> (50)..(50)
<223> n is a, c, g, or t

<220>

20 <221> misc_feature
<222> (56)..(56)
<223> n is a, c, g, or t

<220>

25 <221> misc_feature
<222> (71)..(72)
<223> n is a, c, g, or t

<220>

30 <221> misc_feature
<222> (97)..(97)
<223> n is a, c, g, or t

<220>

35 <221> misc_feature
<222> (110)..(110)
<223> n is a, c, g, or t

<220>

40 <221> misc_feature
<222> (177)..(177)
<223> n is a, c, g, or t

<400> 100

45 cccgggagt ttaagtagg gggcctgccc cttaagcgt agtcccacn tgaaanacac 60

tcccctgaa nntctctaaa ccttaacttt ctggccnttt tgttcagan atgcctaacc 120

ctcagggggt cttttgttct ctacgcctaa aaacttaatc tgtttggaac aattccnttt 180

5 cctctctgta gaaattgacc tggccatggc tcctgtgaat gatacggttg ctattatccc 240

tgaacactgt aaaaatgaac ttgaaacag ttgggtagga cccaaacaga aaatgatgta 300

tggttgga atagtttagc tgaacattat gctttaatat ttactggcc attgcagcac 360

10 aggttagaa atttatgttc ggcttttaa agtttta 397

<210> 101

15 <211> 132

<212> DNA

<213> Human

<220>

20 <221> misc_feature

<222> (121)..(121)

<223> n is a, c, g, or t

25 <400> 101

gttacctaat gttttactct cattttcttt ttctttattt ttcatgtga aaataggaac 60

attaattgta ctactttcaa aagaattaat tgaagaaaga gagatacagg gtatctaggc 120

30 ngaggaagac cc 132

<210> 102

<211> 246

35 <212> DNA

<213> Human

<400> 102

gggggcttta gttataactg ggctaagcat aattgcgcta ccaattccat attatctcat 60

40 ggcacttaat ttataattg atatatataa taaaaaatc aatgcagata ttgatataat 120

aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggtt 180

45 aacctataac ttattaagta aagtccaga atggttcttt gacagtatta aaattaaaga 240

aaacag

246

<210> 103

5 <211> 18

<212> DNA

<213> Artificial Sequence

<220>

10 <223> forward primer of exon 1 of insulin gene used for quantitative
RT-PCR analysis

<220>

15 <221> primer_bind

<222> (1)..(18)

<400> 103

gccctctggg gacctgac

18

<210> 104

<211> 18

<212> DNA

25 <213> Artificial Sequence

<220>

<223> reverse primer of exons 1 and 2 of insulin gene used for
quantitative RT-PCR analysis

<220>

<221> primer_bind

<222> (1)..(18)

<400> 104

cccacctgca ggtcctct

18

<210> 105

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> forward primer of β MyHC gene used for quantitative RT-PCR

analysis

5 <220>
 <221> primer_bind
 <222> (1)..(24)

 <400> 105
 gctggaacgt agagactccc tgct 24
 10

 <210> 106
 <211> 24
 <212> DNA
 15 <213> Artificial Sequence

 <220>
 <223> reverse primer of β MyHC gene used for quantitative RT-PCR
 analysis
 20

 <220>
 <221> primer_bind
 <222> (1)..(24)
 25
 <400> 106
 ggatccttcc agatcatcca cttg 24

 30 <210> 107
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 35 <220>
 <223> forward primer of ANF used for quantitative RT-PCR analysis

 <220>
 40 <221> primer_bind
 <222> (1)..(20)

 <400> 107
 ggatttcaag aatttgctgg 20
 45

<210> 108
 <211> 20
 <212> DNA
 <213> Artificial Sequence
 5
 <220>
 <223> reverse primer of ANF used for quantitative RT-PCR analysis

 10 <220>
 <221> primer_bind
 <222> (1)..(20)

 <400> 108
 15 gcagatcgat cagaggagtc 20

 <210> 109
 <211> 20
 20 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> forward primer of APP used for quantitative RT-PCR analysis
 25

 <220>
 <221> primer_bind
 <222> (1)..(20)
 30
 <400> 109
 ggatgcttca tgtgaacgtg 20

 35 <210> 110
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 40 <220>
 <223> reverse primer of APP used for quantitative RT-PCR analysis

 <220>
 45 <221> primer_bind
 <222> (1)..(19)

<400> 110
tcattcacac cagcacatg

19

5

<210> 111
<211> 21
<212> DNA
<213> Artificial Sequence

10

<220>
<223> forward primer of ZFP used for quantitative RT-PCR analysis

15

<220>
<221> primer_bind
<222> (1)..(21)

20

<400> 111
cacargagrc arggtcaacg a

21

25

<210> 112
<211> 22
<212> DNA
<213> Artificial Sequence

30

<220>
<223> reverse primer of ZFP used for quantitative RT-PCR analysis

35

<220>
<221> primer_bind
<222> (1)..(22)

<400> 112
ggattaaaat gaagcaccca ga

22

40